Transwestern Pipeline Company
1400 Smith Street
Houston, TX 77002
713-853-6161

ENTERED

May 15, 2003

MAY 2003

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Mr. David Cobrain
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Dr. East, Bldg. 1
Santa Fe, New Mexico 87505

RE: Soil Excavation and Removal Report
Roswell Compressor Station
Transwestern Pipeline Company
NMOCD Case # GW052R

This report has been prepared to document completion of soil removal activities at the Transwestern Pipeline Company (TW) Roswell Compressor Station. Soil removal activities were completed in accordance with the "Work Plan for Excavation and Removal of Affected Soil in the Former Surface Impoundment Areas" dated October 18, 2001. This work plan had been approved by both the NMOCD and the NMED.

Soil removal activities were initiated on February 25, 2002 and were completed on March 11, 2002. There were no significant deviations from the approved work plan. In the course of the removal, a total of 3520 cubic yards of soil was transported to the Gandy Marley landfarm facility located near Tatum, New Mexico. An additional 576 cubic yards of debris removed from the area was transported to the Controlled Recovery Inc. landfill facility located West of Hobbs, New Mexico.

Subsequent to soil removal, the sidewalls of the two excavations were sloped back and soil samples were collected from the exposed bottom and sidewalls of the excavations as described in the work plan. The soil sample locations are indicated on the attached figures, Figure 1 and Figure 2. Laboratory results for the bottom and sidewall samples are presented in the attached tables, Table 1 and Table 2. Lab results for Total TPH are also posted on Figure 1 and Figure 2. Sidewall sample results indicate that the lateral extent of the excavations successfully removed near surface affected soil to an acceptable level. Bottom sample results indicate that the vertical extent of the excavations successfully removed the most heavily affected soil. Affected soil below the depth of the excavations will be addressed by soil vapor extraction in the course of additional soil and groundwater remediation activities.

Subsequent to collection of bottom and sidewall soil samples, the bottom of the excavation areas were prepared to facilitate the placement of a plastic liner at the bottom of each area. A 30mil polyethylene liner measuring 60 feet by 90 feet was placed at the bottom of the former Pit 1 area. A 30mil polyethylene liner measuring 65 feet by 70 feet was placed at the bottom of the former Pit 2 area.

Subsequent to placement of the plastic liners, the excavations were backfilled. Blended soil was utilized first for backfill material. The blended soil originated from less affected soil removed from above and around the perimeter of the former pit areas. Soil samples of blended soil were collected in accordance with the work plan. Laboratory results for blended soil samples are presented in Table 3 and Table 4. Soil samples from four blended soil piles indicated a TPH concentration greater than 1000 mg/kg. In each case, the soil was blended further and retested until results indicated a TPH concentration less than 1000 mg/kg. Clean soil from off-site was utilized to complete the backfilling of the excavations in accordance with the work plan. Soil samples of the backfill soil from off-site were collected in accordance with the work plan. Laboratory results for these soil samples are presented in Table 5.

Electronic copies of all laboratory reports are provided in pdf format on the attached CD. Selected photos of the removal activities are also attached.

If there are any questions or comments regarding the excavation and removal activities or this report, please contact me at (713) 646-7644 or George Robinson at (713) 345-1537.

Sincerely,

Bill Kendrick

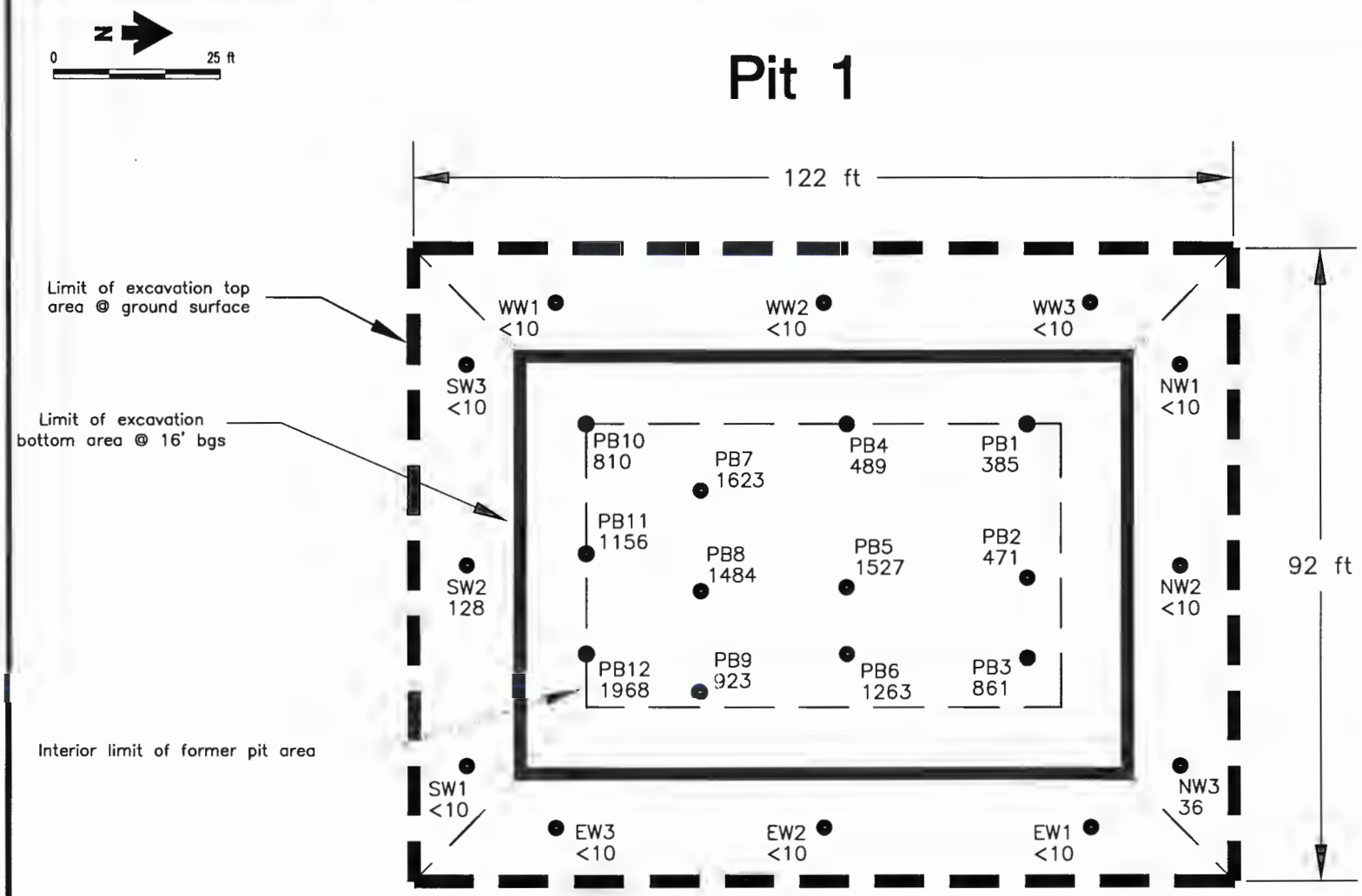
Bill Kendrick
Director, Environmental Affairs

Attachments:

Figure 1 – Pit 1 Area Excavation Samples
Figure 2 – Pit 2 Area Excavation Samples
Table 1 – Summary of Analytical Results for Pit 1 Excavation Bottom and Sidewall Soil Samples
Table 2 – Summary of Analytical Results for Pit 2 Excavation Bottom and Sidewall Soil Samples
Table 3 – Summary of Analytical Results for Pit 1 Excavation Blended Soil Samples
Table 4 – Summary of Analytical Results for Pit 2 Excavation Blended Soil Samples
Table 5 – Summary of Analytical Results for Pit 1 and Pit 2 Backfill Soil Samples

xc: (with attachments)

Larry Campbell	Transwestern Pipeline Company
George Robinson	Cypress Engineering
Bryan Arrant	NMOCD Artesia District Office



Explanation

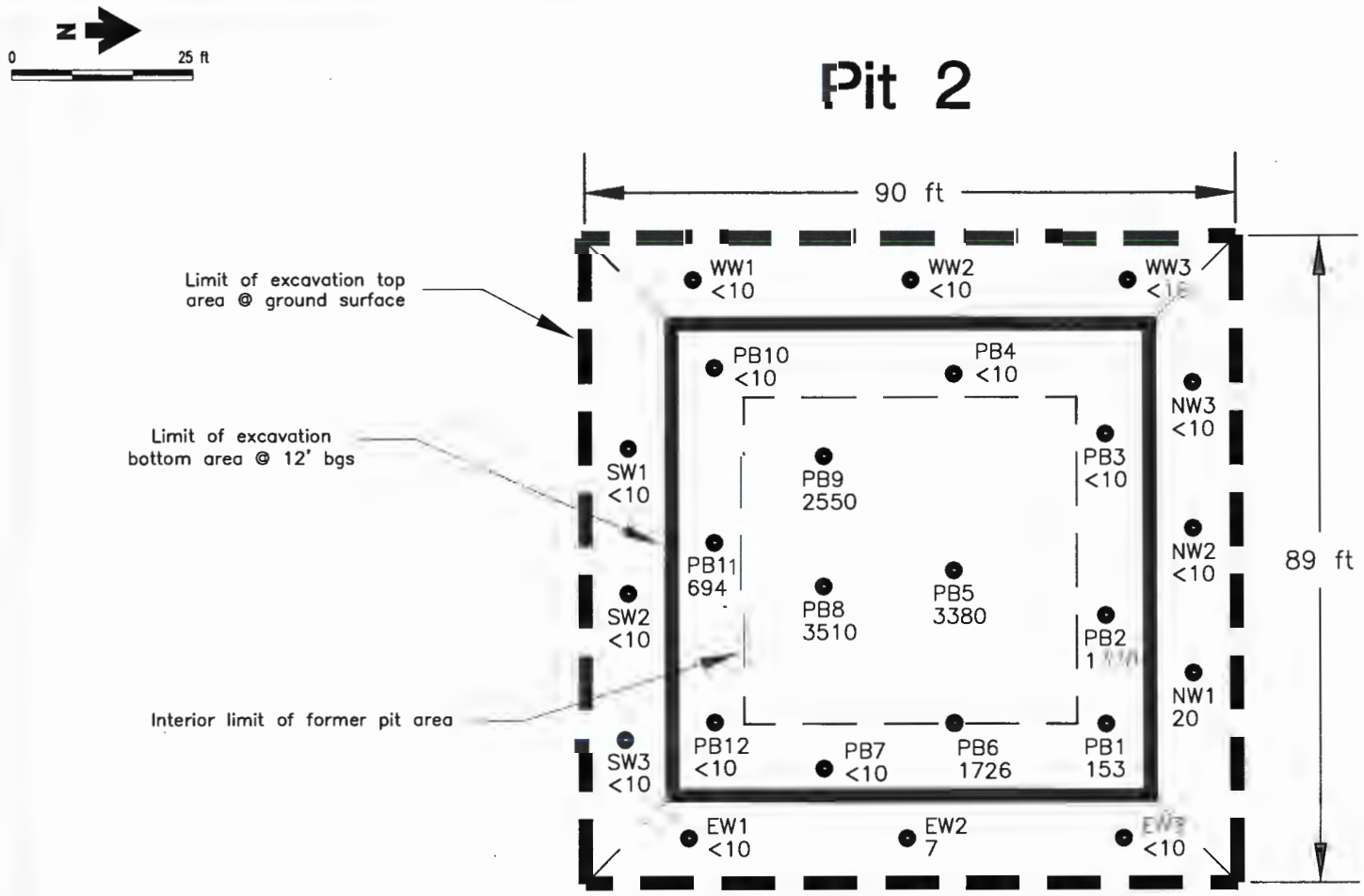
Excavation Sample Location
Total TPH (GRO+DRO)

ROSWELL COMPRESSOR STATION

Pit 1 Area Excavation Samples

CYPRESS ENGINEERING SERVICES, INC.

Figure 1



Explanation

Excavation Sample Location
Total TPH (GRO+DRO)

ROSWELL COMPRESSOR STATION

Pit 2 Area Excavation Samples

CYPRESS ENGINEERING SERVICES, INC.

Figure 2

Table 1. Summary of Analytical Results for Pit 1 Excavation Bottom and Sidewall Soil Samples
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	TPH (mg/kg)			VOCs (ug/kg)																
		GRO	DRO	Total (GRO+DRO)	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4 Dioxane	2-Butanone (MEK)	Acetone	Isopropylbenzene	n-Propylbenzene	Naphthalene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylenes
Pit #1 - PB-1	03/06/02	85.8	299	385	<25	438	281	<500	<50	<250	<25	46.1	117	<25	<25	<25	<25	<20	126	79.5	704
Pit #1 - PB-2	03/06/02	198	273	471	<25	981	648	<500	<50	<250	42.6	105	285	35.3	32.8	41	<25	<20	224	214	1856
Pit #1 - PB-3	03/06/02	426	435	861	<50	2110	1290	<1000	<100	<500	53.8	263	541	<50	<50	897	<50	35.5	914	323	3254
Pit #1 - PB-4	03/06/02	68.4	421	489	<10	423	275	<200	<20	141	<10	30.3	231	12.7	12.3	18.4	<10	<20	125	75.1	700
Pit #1 - PB-5	03/06/02	697	830	1527	<100	2430	1490	<2000	<200	1880	114	301	888	144	134	718	<100	174	2060	524	4880
Pit #1 - PB-6	03/06/02	621	642	1263	509	3000	1720	<2000	<200	<1000	217	430	944	200	167	1420	<100	429	3550	812	7060
Pit #1 - PB-7	03/06/02	503	1120	1623	<50	1370	857	1630	<100	614	77.1	215	426	62.6	66.5	87.6	<50	73.8	1240	493	3748
Pit #1 - PB-8	03/06/02	494	990	1484	<50	2260	1310	2070	<100	710	96	301	615	114	107	692	<50	49.9	1470	262	2529
Pit #1 - PB-9	03/06/02	469	454	923	247	2290	1600	<1000	<100	757	137	354	445	118	125	503	<50	81.6	1750	323	3221
Pit #1 - PB-10	03/06/02	366	444	810	<50	1070	712	<1000	<100	599	<50	61.8	269	<50	<50	53.9	<50	34.8	956	215	1989
Pit #1 - PB-11	03/06/02	301	855	1156	<100	2900	1850	<2000	<200	<1000	265	461	575	180	201	140	<100	<20	1140	585	4880
Pit #1 - PB-12	03/06/02	798	1170	1968	460	4530	2670	<2000	508	2740	460	799	2390	274	307	339	<100	423	4460	1140	8690
Pit #1 - NW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - NW-2	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - NW-3	03/06/02	9.3	26.7	36	<5	<5	7.85	<100	<10	<50	<5	<5	7.18	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - EW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - EW-2	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - EW-3	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - SW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - SW-2	03/06/02	26.7	101	128	<5	50.1	31.8	<100	<10	<50	<5	<5	24.3	<5	<5	<5	<5	<20	<20	<20	33.7
Pit #1 - SW-3	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - WW-1	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - WW-2	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #1 - WW-3	03/06/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20

Notes:
TPH - Total Petroleum Hydrocarbons by method 8015mod (GRO+DRO)

Table 2. Summary of Analytical Results for Pit 2 Excavation Bottom and Sidewall Soil Samples
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	TPH (mg/kg)			VOCs (ug/kg)																
		GRO	DRO	Total (GRO+DRO)	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,4 Dioxane	2-Butanone (MEK)	Acetone	Isopropylbenzene	n-Propylbenzene	Naphthalene	p-Isopropyltoluene	sec-Butylbenzene	Tetrachloroethene	Trichloroethene	Benzene	Toluene	Ethylbenzene	Xylenes
Pit #2 - PB-1	03/12/02	8.3	145	153	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-2	03/12/02	844	534	1378	<200	1440	1640	<4000	<400	<2000	<200	<200	374	234	<200	<200	<200	<20	<20	54.7	574
Pit #2 - PB-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-4	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-5	03/12/02	2290	1090	3380	<1000	8750	5280	<20000	<2000	<10000	<1000	1270	1060	<1000	<1000	<1000	<1000	43.4	536	1140	11530
Pit #2 - PB-6	03/12/02	1050	676	1726	<1000	5050	4090	<20000	<2000	<10000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<20	<20	408	4052
Pit #2 - PB-7	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-8	03/12/02	2050	1460	3510	<1000	6560	3980	<20000	<2000	<10000	<1000	<1000	1110	<1000	<1000	<1000	<1000	<20	46.4	927	7700
Pit #2 - PB-9	03/12/02	1460	1090	2550	<1000	6320	4130	<20000	<2000	<10000	<1000	<1000	1190	<1000	<1000	<1000	<1000	<20	128	780	8830
Pit #2 - PB-10	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - PB-11	03/12/02	371	323	694	<100	1090	1210	<2000	<200	<1000	<100	<100	144	433	<100	<100	<100	<20	<20	36.1	325
Pit #2 - PB-12	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - NW-1	03/12/02	6.5	13.7	20	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - NW-2	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - NW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - EW-1	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - EW-2	03/12/02	<5	6.8	6.8	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - EW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - WW-1	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - WW-2	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - WW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - SW-1	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - SW-2	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	<5	<5	<5	<5	<5	<20	<20	<20	<20
Pit #2 - SW-3	03/12/02	<5	<5	<10	<5	<5	<5	<100	<10	<50	<5	<5	12.5	<5	<5	<5	<5	<20	<20	<20	<20

Notes:
TPH - Total Petroleum Hydrocarbons by method 8015mod (GRO+DRO)

Table 3. Summary of Analytical Results for Pit 1 Excavation Blended Soil Samples
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	TPH (mg/kg)			VOCs (ug/kg)				
		GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
Work Plan Criteria:		---	---	1000	10000	---	---	---	50000
Pit #1 - SPW-1	03/04/02	32.1	247	279	<20	86.8	94.2	659	840
Pit #1 - SPW-2	03/04/02	123	874	997	<20	284	165	1268	1717
Pit #1 - SPW-3	03/04/02	90.6	637	728	<20	307	163	1301	1771
Pit #1 - SPW-4	03/04/02	178.0	190	368	<20	199	124	1068	1391
Pit #1 - SPW-5	03/04/02	97.5	674	772	<20	168	118	1029	1315
Pit #1 - SPW-6	03/04/02	34.1	283	317	<20	239	158	1363	1760
Pit #1 - SPW-7	03/04/02	48.1	334	382	<20	184	140	1252	1576
Pit #1 - SPW-8	03/04/02	33.4	258	291	<20	324	208	1805	2337
Pit #1 - SPW-9	03/04/02	54.4	332	386	<20	274	186	1555	2015
Pit #1 - SPW-10	03/04/02	112	729	841	<20	359	206	1638	2203
Pit #1 - SPW-11	03/04/02	44.2	244	288	<20	286	167	1448	1901
Pit #1 - SPW-12	03/04/02	118	600	718	<20	347	197	1694	2238
Pit #1 - SPW-13	03/04/02	133	598	731	<20	355	206	1763	2324
Pit #1 - SPW-14	03/04/02	80	293	373	<20	414	251	2065	2730
Pit #1 - SPW-15	03/04/02	50	283	333	<20	233	140	1239	1612
Pit #1 - SPW-16	03/04/02	46.9	211	258	<20	307	226	1933	2466
Pit #1 - SPN-1	03/04/02	<5	<5	<10	<20	<20	<20	<20	<20
Pit #1 - SPN-2	03/04/02	<5	<5	<10	<20	<20	<20	<20	<20
Pit #1 - SPW-17	03/05/02	50.1	249	299	<20	89.6	83.4	786	959
Pit #1 - SPW-18	03/05/02	116	800	916	<20	229	132	1204	1565
Pit #1 - SPW-19	03/05/02	95.6	588	684	<20	143	84.6	777	1005
Pit #1 - SPW-20	03/05/02	103	687	790	<20	284	155	1282	1721
Pit #1 - SPW-21	03/05/02	103	737	840	<20	188	102	836	1126
Pit #1 - SPW-22	03/05/02	70.4	415	485	<20	171	98.2	850	1119
Pit #1 - SPW-23	03/05/02	69.8	386	456	<20	105	68.7	626	800
Pit #1 - SPW-24	03/05/02	76.8	459	536	<20	220	94.5	847	1162
Pit #1 - SPS-1	03/05/02	72.5	410	483	<20	138	79.9	735	953
Pit #1 - SPS-2	03/05/02	88.9	468	557	<20	135	101	954	1190
Pit #1 - SPS-3	03/05/02	97.1	537	634	<20	133	94.9	911	1139
Pit #1 - SPS-4	03/05/02	81.8	473	555	<20	114	76.1	745	935
Pit #1 - SPS-5	03/05/02	90.3	366	456	<20	244	148	1398	1790
Pit #1 - SPS-6	03/05/02	108	359	467	<20	230	164	1551	1945
Pit #1 - SPS-7	03/05/02	79.3	205	284	<20	218	171	1629	2018
Pit #1 - SPS-8	03/05/02	171	494	665	<20	246	193	1826	2265
Pit #1 - SPS-9	03/05/02	139	389	528	<20	212	154	1406	1772
Pit #1 - SPS-10	03/05/02	172	387	559	<20	367	276	2648	3291
Pit #1 - SPS-11	03/05/02	282	635	917	<20	319	275	2671	3265
Pit #1 - SPS-12	03/05/02	368	915	1283	<20	387	300	2911	3598
Pit #1 - SPS-13	03/05/02	289	640	929	<20	248	228	2247	2723
Pit #1 - SPS-14	03/05/02	276	789	1065	<20	277	247	2481	3005
Pit #1 - SPS-15	03/05/02	161	519	680	<20	220	200	1948	2368
Pit #1 - SPS-16	03/05/02	106	616	722	<20	198	98.9	911	1208
Pit #1 - SPS-17	03/05/02	110	597	707	<20	240	106	977	1323
Pit #1 - SPS-18	03/05/02	57.5	164	222	<20	237	132	1279	1648
Pit #1 - SPS-19	03/05/02	258	874	1132	<20	306	222	2059	2587
Pit #1 - SPS-20	03/05/02	250	653	903	<20	432	254	2322	3008
Pit #1 - SPS-21	03/05/02	176	411	587	<20	363	247	2319	2929
Pit #1 - SPS-22	03/05/02	286	519	805	<20	383	282	2679	3344
Pit #1 - SPS-23	03/05/02	233	597	830	<20	310	241	2290	2841
Pit #1 - SPS-24	03/05/02	138	336	474	<20	326	216	1995	2537
Pit #1 - SPS-25	03/05/02	204	384	588	<20	412	320	2974	3706

Table 3. Summary of Analytical Results for Pit 1 Excavation Blended Soil Samples
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	TPH (mg/kg)			VOCs (ug/kg)				
		GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
Work Plan Criteria:		---	---	1000	10000	---	---	---	50000
Pit #1 - SPS-26	03/05/02	252	473	725	<20	329	285	2722	3336
Pit #1 - SPS-27	03/05/02	57.9	100	158	<20	348	260	2461	3069
Pit #1 - SPS-28	03/05/02	187	477	664	<20	449	306	2879	3634
Pit #1 - SPS-29	03/05/02	202	460	662	<20	406	290	2716	3412
Pit #1 - SPS-30	03/05/02	228	375	603	<20	463	328	3097	3888
Pit #1 - SPC-1	03/07/02	144	650	794	<20	112	109	1096	1317
Pit #1 - SPC-2	03/07/02	105	536	641	<20	86	88	891	1065
Pit #1 - SPC-3	03/07/02	96.2	188	284	<20	86.7	93.2	940	1120
Pit #1 - SPC-4	03/07/02	93.6	472	566	<20	72.2	89.3	977	1139
Pit #1 - SPC-5	03/07/02	71.6	210	282	<20	87.9	85.8	955	1129
Pit #1 - SPC-6	03/07/02	89.5	410	500	<20	80	62	726	868
Pit #1 - SPC-7	03/07/02	196	655	851	<20	108	92.2	1045	1245
Pit #1 - SPC-8	03/07/02	122	429	551	<20	137	116	1292	1545
Pit #1 - SPC-9	03/07/02	96.1	284	380	<20	127	97.6	1096	1321
Pit #1 - SPC-10	03/07/02	152	502	654	<20	125	88.4	953	1166
Pit #1 - SPC-11	03/07/02	66.9	276	343	<20	82.5	71.9	761	915
Pit #1 - SPC-12	03/07/02	120	610	730	<20	119	101	1015	1235
Pit #1 - SPC-13	03/07/02	38.6	108	147	<20	21.8	26.4	298	347
Pit #1 - SPC-14	03/07/02	27.3	146	173	<20	27.7	29.7	331	388
Pit #1 - SPC-15	03/07/02	20.4	68.8	89	<20	<20	<20	174	174
Pit #1 - SPC-16	03/07/02	19.2	81.8	101	<20	<20	<20	168	168
Pit #1 - SPC-17	03/07/02	101	319	420	<20	96.7	88.4	917	1102
Pit #1 - SPC-18	03/07/02	87.6	333	421	<20	147	112	1155	1414
Pit #1 - SPC-19	03/07/02	45.8	159	205	<20	25.9	30.4	358	414
Pit #1 - SPC-20	03/07/02	103	335	438	<20	78	65.8	783	927
Pit #1 - SPC-21	03/07/02	72.4	266	338	<20	158	122	1251	1531
Pit #1 - SPC-22	03/07/02	137	525	662	<20	325	185	1768	2278
Pit #1 - SPC-23	03/07/02	78.2	301	379	<20	163	123	1266	1552
Pit #1 - SPC-24	03/07/02	57.1	149	206	<20	413	203	1843	2459
Pit #1 - SPS-12 Retest	03/09/02	126	532	658	<20	34.3	47.2	658	740
Pit #1 - SPS-14 Retest	03/09/02	150	685	835	<20	54.8	75.6	986	1116
Pit #1 - SPS-19 Retest	03/09/02	297	957	1254	<20	120	167	2094	2381
Pit #1 - SPS-19 Test-3	03/13/02	46.5	92.1	139	<20	<20	<20	31	31

Notes:
"---" - No applicable work plan criteria
TPH - Total Petroleum Hydrocarbons by method 8015mod (GRO+DRO)

Table 4. Summary of Analytical Results for Pit 2 Excavation Blended Soil Samples
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	TPH (mg/kg)			VOCs (ug/kg)				
		GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
Work Plan Criteria:		---	---	1000	10000	---	---	---	50000
Pit #2 - SPT-1	03/11/02	54.4	60.4	115	<20	<20	<20	143	143
Pit #2 - SPT-2	03/11/02	28.7	31.2	60	<20	<20	<20	59	59
Pit #2 - SPT-3	03/11/02	15	37.5	53	<20	<20	<20	<20	<20
Pit #2 - SPT-4	03/11/02	6.8	14.9	22	<20	<20	<20	<20	<20
Pit #2 - SPT-5	03/11/02	9.0	18.9	28	<20	<20	<20	<20	<20
Pit #2 - SPT-6	03/11/02	11.2	10.4	22	<20	<20	<20	<20	<20
Pit #2 - SPT-7	03/11/02	10.3	21.0	31	<20	<20	<20	<20	<20
Pit #2 - SPNE-1	03/11/02	162	290	452	<20	<20	<20	113	113
Pit #2 - SPNE-2	03/11/02	316	343	659	<20	<20	29.3	321	351
Pit #2 - SPNE-3	03/11/02	134	215	349	<20	<20	22	241	263
Pit #2 - SPNE-4	03/11/02	68.5	61.7	130	<20	<20	27.4	299	327
Pit #2 - SPNE-5	03/11/02	264	186	450	<20	<20	46.7	616	663
Pit #2 - SPNE-6	03/11/02	203	286	489	<20	<20	<20	206	206
Pit #2 - SPNE-7	03/11/02	117	169	286	<20	<20	<20	195	195
Pit #2 - SPNE-8	03/11/02	121	186	307	<20	<20	<20	170	170
Pit #2 - SPNE-9	03/11/02	67.5	89	157	<20	<20	<20	184	184
Pit #2 - SPNE-10	03/11/02	74.1	86.4	161	<20	<20	<20	149	149
Pit #2 - SPNE-11	03/11/02	106	139	245	<20	<20	<20	138	138
Pit #2 - SPNE-12	03/11/02	129	211	340	<20	<20	<20	220	220
Pit #2 - SPNE-13	03/11/02	89.1	116	205	<20	<20	20.8	214	235
Pit #2 - SPNE-14	03/11/02	277	221	498	<20	71.1	21.2	1200	1292
Pit #2 - SPNE-15	03/11/02	121	139	260	<20	100	34.5	810	945
Pit #2 - SPNE-16	03/11/02	150	127	277	<20	207	28.1	1262	1497
Pit #2 - SPNE-17	03/11/02	124	114	238	<20	85.4	23.1	731	840
Pit #2 - SPC-1	03/12/02	196	257	453	<20	<20	23.6	311	334
Pit #2 - SPC-2	03/12/02	69.6	77.5	147	<20	<20	<20	151	151
Pit #2 - SPC-3	03/12/02	49.8	56.2	106	<20	<20	<20	167	167
Pit #2 - SPC-4	03/12/02	78.8	97.6	176	<20	<20	<20	223	223
Pit #2 - SPC-5	03/12/02	63.2	73.8	137	<20	<20	<20	171	171
Pit #2 - SPC-6	03/12/02	66.2	102	168	<20	<20	<20	199	199
Pit #2 - SPC-7	03/12/02	68.9	88.9	158	<20	<20	<20	212	212
Pit #2 - SPC-8	03/12/02	84.6	186	271	<20	<20	<20	174	174
Pit #2 - SPT-9	03/12/02	35.3	54.8	90	<20	<20	<20	97	97
Pit #2 - SPT-10	03/12/02	32.8	42.8	76	<20	<20	<20	71	71
Pit #2 - SPT-11	03/12/02	98.3	115	213	<20	<20	<20	159	159
Pit #2 - SPT-12	03/12/02	74.9	106	181	<20	<20	<20	172	172
Pit #2 - SPT-13	03/12/02	70.2	78.9	149	<20	<20	<20	137	137
Pit #2 - SPT-14	03/12/02	109	53.2	162	<20	<20	48.4	531	579
Pit #2 - SPT-15	03/12/02	102	52.3	154	<20	<20	46.8	523	570
Pit #2 - SPT-16	03/12/02	94.3	40.5	135	<20	<20	46.3	507	553
Pit #2 - SPT-17	03/12/02	5.89	5.2	11	<20	<20	<20	<20	<20
Pit #2 - SPT-18	03/12/02	5.1	<5	5	<20	<20	<20	<20	<20
Pit #2 - SPT-19	03/12/02	147	157	304	<20	<20	<20	<20	<20
Pit #2 - SPT-8	03/12/02	90.6	81.6	172	<20	<20	<20	117	117

Notes:

"---" - No applicable work plan criteria

TPH - Total Petroleum Hydrocarbons by method 8015mod (GRO+DRO)

Table 5. Summary of Analytical Results for Pit 1 and Pit 2 Backfill Soil Samples
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	TPH (mg/kg)			VOCs (ug/kg)				
		GRO	DRO	Total (GRO+DRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX
Work Plan Criteria:		—	—	1000	10000	—	—	—	50000
Pit #1 - Sand-1	03/05/02	<5	7.3	7.3	<20	<20	<20	<20	<20
Pit #1 - Sand-2	03/05/02	<5	6.1	6.1	<20	<20	<20	<20	<20
Pit #1 - Sand-3	03/05/02	<5	15.5	15.5	<20	<20	<20	<20	<20
Pit #1 - Sand-4	03/05/02	<5	50.6	50.6	<20	<20	<20	<20	<20
Pit #1 - Sand-5	03/05/02	<5	5.9	5.9	<20	<20	<20	<20	<20
Pit #1 - Sand-6	03/05/02	<5	8.8	8.8	<20	<20	<20	<20	<20
Backfill-1	03/19/02	<5	<5	<5	<20	<20	<20	<20	<20
Backfill-2	03/19/02	<5	<5	<5	<20	<20	<20	<20	<20
Backfill-3	03/19/02	<5	<5	<5	<20	<20	<20	<20	<20

Notes:
"---" - No applicable work plan criteria
TPH - Total Petroleum Hydrocarbons by method 8015mod (GRO+DRO)

TW Roswell Station – Soil Excavation & Removal Project

Top Photo: Pit 1 excavation in progress.

Bottom Photo: Pit 1 excavation complete.

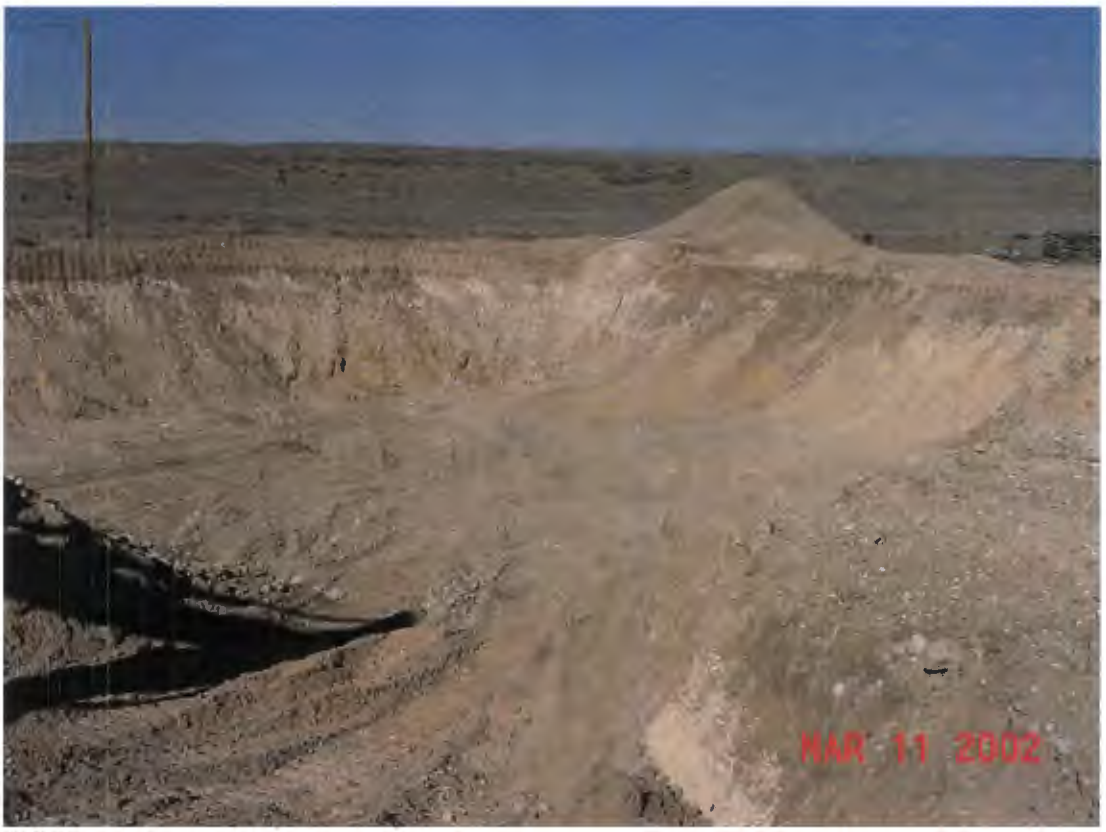
TW Roswell Station – Soil Excavation & Removal Project

Top Photo: Pit 1 excavation, preparing bottom for liner.

Bottom Photo: Pit 1 excavation, laying out liner.

TW Roswell Station – Soil Excavation & Removal Project

Top Photo: Pit 2 excavation in progress.



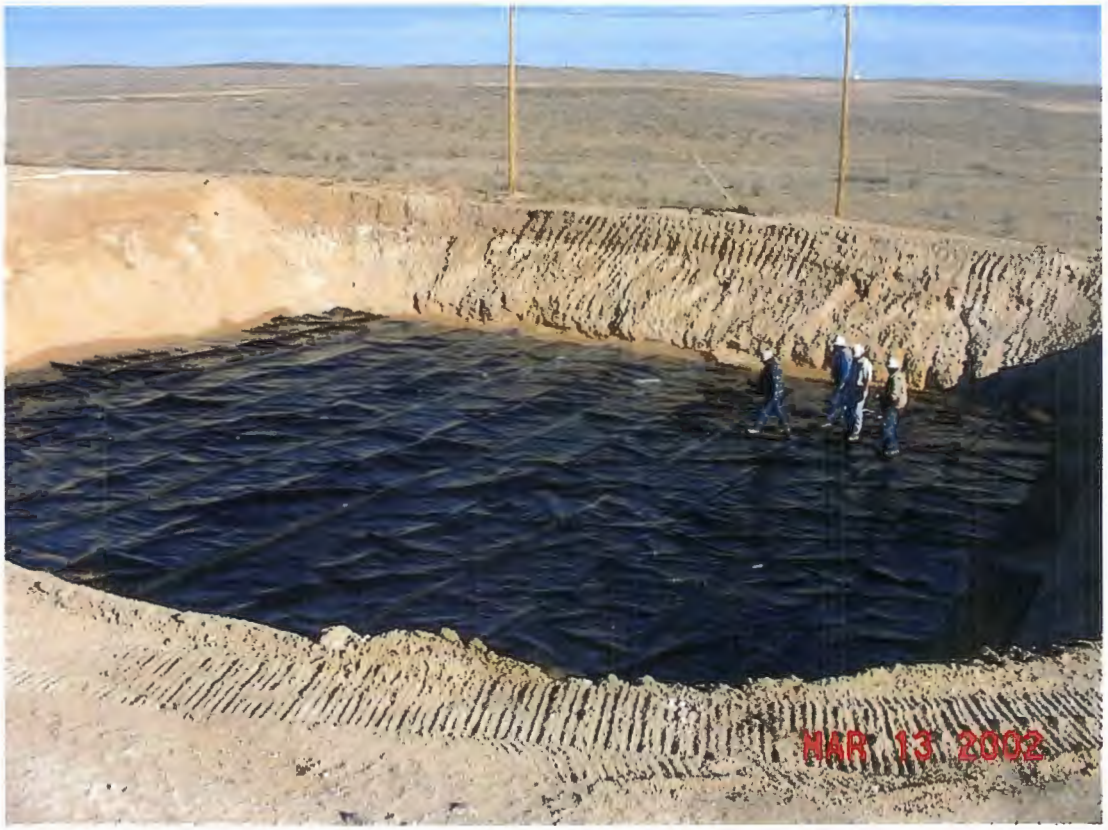
Bottom Photo: Pit 2 excavation complete.

TW Roswell Station – Soil Excavation & Removal Project

Top Photo: Pit 2 excavation, preparing bottom for liner.

Bottom Photo: Pit 2 excavation, laying out liner.

TW Roswell Station – Soil Excavation & Removal Project



Top Photo: Pit 2 excavation, liner in-place.

Bottom Photo: Project Complete, Pit 1 area in foreground and Pit 2 area in background.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126370 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-1
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:08

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)	247	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	32.1	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	94.2	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	492	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	167	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	86.8	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-1

Report#/Lab ID#: 126370
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	109	50-150	---
1,2-Dichloroethane-d4	8260b	115	65-115	---
Toluene-d8	8260b	103	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126371 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-2
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:12

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)	874	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	123	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	165	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	966	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	302	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	284	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-2

Report#/Lab ID#: 126371
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	129	50-150	---
p-Terphenyl	8015 mod.	126	50-150	---
1,2-Dichloroethane-d4	8260b	79.2	65-115	---
Toluene-d8	8260b	99	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126372 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-3
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:16

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)	637	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	90.6	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	163	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	988	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	313	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	307	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-3

Report#/Lab ID#: 126372
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	100	50-150	---
p-Terphenyl	8015 mod.	77.4	50-150	---
1,2-Dichloroethane-d4	8260b	88.7	65-115	---
Toluene-d8	8260b	98.6	50-120	---

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

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Report#/Lab ID#: 126373 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-4
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:20

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)	190	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	178	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	124	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	808	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	260	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	199	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-4

Report#/Lab ID#: 126373
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	57.6	50-150	---
p-Terphenyl	8015 mod.	137	50-150	---
1,2-Dichloroethane-d4	8260b	83.5	65-115	---
Toluene-d8	8260b	94.5	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126374 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-5
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:30

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)	674	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	97.5	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	118	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	769	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	260	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	168	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-5

Report#/Lab ID#: 126374
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	78.8	65-115	---
Toluene-d8	8260b	92.1	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126375 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-6
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:34

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)	283	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	34.1	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	158	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1020	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	343	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	239	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-6

Report#/Lab ID#: 126375
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	92	50-150	---
p-Terphenyl	8015 mod.	144	50-150	---
1,2-Dichloroethane-d4	8260b	84.8	65-115	---
Toluene-d8	8260b	99.7	50-120	---

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

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Report#/Lab ID#: 126376 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-7
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:40

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)	334	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	48.1	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	140	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	931	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	321	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	184	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-7

Report#/Lab ID#: 126376
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	128	50-150	---
p-Terphenyl	8015 mod.	112	50-150	---
1,2-Dichloroethane-d4	8260b	86.7	65-115	---
Toluene-d8	8260b	96.6	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126377 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-8
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 14:45

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)	258	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	33.4	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	208	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1350	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	455	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	324	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-8

Report#/Lab ID#: 126377
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.	138	50-150	---
1,2-Dichloroethane-d4	8260b	94	65-115	---
Toluene-d8	8260b	97.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126377 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-8

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 TNRCC-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.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126378 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-9
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 15:35

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)	332	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	54.4	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	186	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1170	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	385	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	274	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-9

Report#/Lab ID#: 126378
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	86.1	50-150	---
p-Terphenyl	8015 mod.	105	50-150	---
1,2-Dichloroethane-d4	8260b	88.4	65-115	---
Toluene-d8	8260b	99.8	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126379 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-10
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 15:45

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)	729	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	112	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	206	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1240	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	398	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	359	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Respectfully Submitted,

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-10

Report#/Lab ID#: 126379
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	127	50-150	---
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	90.7	65-115	---
Toluene-d8	8260b	95	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126379 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-10

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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A J flag data qualifier indicates (as required under TNRCC-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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126380 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-11
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 15:50

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)	244	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	44.2	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	167	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1100	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	348	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	286	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-11

Report#/Lab ID#: 126380
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	100	50-150	---
p-Terphenyl	8015 mod.	94	50-150	---
1,2-Dichloroethane-d4	8260b	86.9	65-115	---
Toluene-d8	8260b	99.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126380 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-11

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.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126381 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-12
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 15:55

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)	600	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	118	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	197	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1290	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	404	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	347	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-12

Report#/Lab ID#: 126381
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	126	50-150	---
p-Terphenyl	8015 mod.	121	50-150	---
1,2-Dichloroethane-d4	8260b	90.1	65-115	---
Toluene-d8	8260b	95.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126381 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-12

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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126382 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-13
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 16:00

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)	598	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	133	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	206	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1350	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	413	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	355	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-13

Report#/Lab ID#: 126382
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	139	50-150	---
1,2-Dichloroethane-d4	8260b	88.7	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126382 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-13

Sample Temperature/Condition <=6°C

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126383 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-14
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 16:05

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)	293	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	80	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	251	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1560	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	505	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	414	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-14

Report#/Lab ID#: 126383
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	122	50-150	---
p-Terphenyl	8015 mod.	112	50-150	---
1,2-Dichloroethane-d4	8260b	84.9	65-115	---
Toluene-d8	8260b	94.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126383 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-14

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126384 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-15
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 16:10

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)	283	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	50	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	140	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	934	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	305	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	233	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-15

Report#/Lab ID#: 126384
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	79.4	50-150	---
p-Terphenyl	8015 mod.	107	50-150	---
1,2-Dichloroethane-d4	8260b	85	65-115	---
Toluene-d8	8260b	95.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126384 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-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.
- ☐ 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 TNRCC-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.

Notes:

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126385 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPW-16
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 16:15

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)	211	mg/Kg	5	<5	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	46.9	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.6	89.6	85.9	86.6
Ethylbenzene	226	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	1430	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	503	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	307	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-16

Report#/Lab ID#: 126385
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	118	50-150	---
p-Terphenyl	8015 mod.	113	50-150	---
1,2-Dichloroethane-d4	8260b	88.3	65-115	---
Toluene-d8	8260b	103	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126385 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPW-16

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126386 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPN-1
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 15:05

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	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.9	98.6	99.8	103
o-Xylene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	<20	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPN-1

Report#/Lab ID#: 126386
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	114	50-150	---
p-Terphenyl	8015 mod.	92.5	50-150	---
1,2-Dichloroethane-d4	8260b	92.2	65-115	---
Toluene-d8	8260b	95.4	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126387 **Report Date:** 03/06/02
Project ID: Roswell Pit #1
Sample Name: SPN-2
Sample Matrix: soil
Date Received: 03/05/2002 **Time:** 10:17
Date Sampled: 03/04/2002 **Time:** 15:10

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	03/06/02	8015 mod.	---	4.3	119.9	103.8	103.4
TPH by GC (as diesel-ext)	---	---	---	---	03/05/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/06/02	8015 mod.	---	1.1	122.7	89.6	109.2
Volatile organics-8260b/BTEX	---		---		03/05/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.6	89.6	85.9	86.6
Ethylbenzene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.2	95.6	97.4	100.7
m,p-Xylenes	<20	µg/Kg	20	<20	03/05/02	8260b	J	1.9	98.6	99.8	103
o-Xylene	<20	µg/Kg	20	<20	03/05/02	8260b	---	1.7	95.7	95.5	99.8
Toluene	<20	µg/Kg	20	<20	03/05/02	8260b	---	0	86.9	82.4	86.1

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ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPN-2

Report#/Lab ID#: 126387
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	119	50-150	---
p-Terphenyl	8015 mod.	96.5	50-150	---
1,2-Dichloroethane-d4	8260b	88.7	65-115	---
Toluene-d8	8260b	101	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126387 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPN-2

Sample Temperature/Condition <=6°C

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:

CHAIN-OF CUSTODY

1-48

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN
Address 1400 SMITH ROOM ECN-4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345 1537 Fax 713 646 7867

Bill to (if different):
Company Name SAME. ENVIRON PACENG
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.): ASAP.
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FAIRENV

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260A	TPH 8015 MOD.	CHRO-GADS						Comments
SPW-1	3-4-02	1408	1	✓			126370	✓	✓							
SPW-2		1412	1	✓			126371	✓	✓							
SPW-3		1416	1	✓			126372	✓	✓							
SPW-4		1420	1	✓			126373	✓	✓							
SPW-5		1430	1	✓			126374	✓	✓							
SPW-6		1434	1	✓			126375	✓	✓							
SPW-7		1440	1	✓			126376	✓	✓							
SPW-8		1445	1	✓			126377	✓	✓							
SPW-9		1535	1	✓			126378	✓	✓							
SPW-10		1545	1	✓			126379	✓	✓							

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
GEORGE FAIRENV	CYPRESS ENG.	3-4-02	1700	Melanie Humphrey	ASI	3/5/02	10:17

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

CHAIN-OF CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN
Address 1400 SMITH ROOM ECN-4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE FRIEND
Phone (713) 345 1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): ASAP.
Project Name/PO#: ROSWELL NIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B	TPH 8015 Mod. (DRO-GRO)							Comments
SPW-11	3-4-02	1550	1	✓			126380	✓	✓							
SPW-12		1555	1	✓			126381	✓	✓							
SPW-13		1600	1	✓			126382	✓	✓							
SPW-14		1605	1	✓			126383	✓	✓							
SPW-15		1610	1	✓			126384	✓	✓							
SPW-16		1615	1	✓			126385	✓	✓							
SPN-1		1505	1	✓			126386	✓	✓							
SPN-2		1510	1	✓			126387	✓	✓							

PVS

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
GEORGE FRIEND	CYPRESS ENG	3-4-02	1700.	Melanie Humphrey	ASI	3/5/02	10:17

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126432 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-17
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:00

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)	249	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	50.1	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	83.4	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	581	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	205	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	89.6	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-17

Report#/Lab ID#: 126432
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	81.3	50-150	---
p-Terphenyl	8015 mod.	131	50-150	---
1,2-Dichloroethane-d4	8260b	89.2	65-115	---
Toluene-d8	8260b	81.7	50-120	---

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

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126433 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-18
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:03

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)	800	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	116	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	132	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	905	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	299	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	229	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-18

Report#/Lab ID#: 126433
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	114	50-150	---
p-Terphenyl	8015 mod.	129	50-150	---
1,2-Dichloroethane-d4	8260b	90.3	65-115	---
Toluene-d8	8260b	78.4	50-120	---

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

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Attn: George Robinson
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126434 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-19
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:05

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)	588	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	95.6	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	84.6	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	591	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	186	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	143	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-19

Report#/Lab ID#: 126434
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	146	50-150	---
p-Terphenyl	8015 mod.	88.1	50-150	---
1,2-Dichloroethane-d4	8260b	88.8	65-115	---
Toluene-d8	8260b	76.9	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126435 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-20
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:08

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)	687	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	103	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	155	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	980	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	302	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	284	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-20

Report#/Lab ID#: 126435
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	131	50-150	---
p-Terphenyl	8015 mod.	145	50-150	---
1,2-Dichloroethane-d4	8260b	97.1	65-115	---
Toluene-d8	8260b	84.7	50-120	---

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

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Attn: George Robinson
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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126436 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-21
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:10

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)	737	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	103	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	102	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	642	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	194	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	188	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-21

Report#/Lab ID#: 126436
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	111	50-150	---
1,2-Dichloroethane-d4	8260b	94.5	65-115	---
Toluene-d8	8260b	82.4	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126437 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-22
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:12

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)	415	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	70.4	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	98.2	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	650	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	200	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	171	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-22

Report#/Lab ID#: 126437
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	129	50-150	---
p-Terphenyl	8015 mod.	130	50-150	---
1,2-Dichloroethane-d4	8260b	84.9	65-115	---
Toluene-d8	8260b	75.9	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126438 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-23
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:15

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)	386	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	69.8	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	68.7	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	471	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	155	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	105	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-23

Report#/Lab ID#: 126438
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	134	50-150	---
p-Terphenyl	8015 mod.	145	50-150	---
1,2-Dichloroethane-d4	8260b	79.7	65-115	---
Toluene-d8	8260b	80.5	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126439 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPW-24
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:18

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)	459	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	76.8	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	94.5	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	645	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	202	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	220	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPW-24

Report#/Lab ID#: 126439
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	145	50-150	---
p-Terphenyl	8015 mod.	147	50-150	---
1,2-Dichloroethane-d4	8260b	95.6	65-115	---
Toluene-d8	8260b	80.5	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126440 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-1
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:50

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)	410	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	72.5	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	79.9	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	558	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	177	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	138	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-1

Report#/Lab ID#: 126440
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	114	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	94	65-115	---
Toluene-d8	8260b	79.2	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126441 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-2
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:55

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)	468	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	88.9	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	101	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	706	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	248	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	135	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-2

Report#/Lab ID#: 126441
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	150	50-150	---
p-Terphenyl	8015 mod.	150	50-150	---
1,2-Dichloroethane-d4	8260b	91.5	65-115	---
Toluene-d8	8260b	83	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126442 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-3
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 13:59

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)	537	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	97.1	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	94.9	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	677	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	234	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	133	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-3

Report#/Lab ID#: 126442
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	103	50-150	---
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	84.4	65-115	---
Toluene-d8	8260b	83.4	50-120	---

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

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Report#/Lab ID#: 126443 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-4
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:00

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)	473	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	81.8	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	76.1	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	560	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	185	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	114	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-4

Report#/Lab ID#: 126443
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	150	50-150	---
p-Terphenyl	8015 mod.	141	50-150	---
1,2-Dichloroethane-d4	8260b	91.4	65-115	---
Toluene-d8	8260b	79.6	50-120	---

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

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Report#/Lab ID#: 126444 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-5
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:03

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)	366	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	90.3	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	148	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1040	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	358	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	244	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-5

Report#/Lab ID#: 126444
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	118	50-150	---
1,2-Dichloroethane-d4	8260b	93	65-115	---
Toluene-d8	8260b	85.2	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126445 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-6
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:12

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)	359	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	108	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	164	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1130	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	421	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	230	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-6

Report#/Lab ID#: 126445
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	141	50-150	---
p-Terphenyl	8015 mod.	143	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	91.9	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126446 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-7
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:15

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)	205	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	79.3	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	171	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1180	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	449	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	218	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-7

Report#/Lab ID#: 126446
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	74.7	50-150	---
p-Terphenyl	8015 mod.	112	50-150	---
1,2-Dichloroethane-d4	8260b	96.8	65-115	---
Toluene-d8	8260b	87.6	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126447 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-8
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:20

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)	494	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	171	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	193	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1330	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	496	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	246	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-8

Report#/Lab ID#: 126447
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.	147	50-150	---
1,2-Dichloroethane-d4	8260b	89.8	65-115	---
Toluene-d8	8260b	81.9	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126448 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-9
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:23

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)	389	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	139	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	154	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1020	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	386	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	212	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-9

Report#/Lab ID#: 126448
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	109	50-150	---
p-Terphenyl	8015 mod.	146	50-150	---
1,2-Dichloroethane-d4	8260b	81.9	65-115	---
Toluene-d8	8260b	75	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126449 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-10
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:30

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)	387	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	172	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	276	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1920	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	728	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	367	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-10

Report#/Lab ID#: 126449
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	106	50-150	---
p-Terphenyl	8015 mod.	138	50-150	---
1,2-Dichloroethane-d4	8260b	109	65-115	---
Toluene-d8	8260b	99.5	50-120	---

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

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Client: Cypress Engineering
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126450 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-11
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:35

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)	635	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.8	99.9	117.5	98
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	282	mg/Kg	5	<5	03/08/02	8015 mod.	---	7.7	111.3	110.2	111.3
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	15.4	89.9	102.1	95.6
Ethylbenzene	275	µg/Kg	20	<20	03/06/02	8260b	---	2.9	93.6	101.6	99.5
m,p-Xylenes	1920	µg/Kg	20	<20	03/06/02	8260b	---	2.3	95.6	105.4	101.6
o-Xylene	751	µg/Kg	20	<20	03/06/02	8260b	---	2.4	90.2	98.4	96.2
Toluene	319	µg/Kg	20	<20	03/06/02	8260b	---	15.3	98.3	112	104.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-11

Report#/Lab ID#: 126450
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	80.7	50-150	---
p-Terphenyl	8015 mod.	137	50-150	---
1,2-Dichloroethane-d4	8260b	88.3	65-115	---
Toluene-d8	8260b	80.3	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126451 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-12
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:40

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)	915	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	368	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	300	µg/Kg	20	<20	03/06/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	2090	µg/Kg	20	<20	03/06/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	821	µg/Kg	20	<20	03/06/02	8260b	---	1	88.1	99.1	97.1
Toluene	387	µg/Kg	20	<20	03/06/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-12

Report#/Lab ID#: 126451
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	113	50-150	---
p-Terphenyl	8015 mod.	139	50-150	---
1,2-Dichloroethane-d4	8260b	92	65-115	---
Toluene-d8	8260b	80.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126451 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-12

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 TNRCC-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.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126452 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-13
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:43

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)	640	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	289	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	228	µg/Kg	20	<20	03/06/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1610	µg/Kg	20	<20	03/06/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	637	µg/Kg	20	<20	03/06/02	8260b	---	1	88.1	99.1	97.1
Toluene	248	µg/Kg	20	<20	03/06/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-13

Report#/Lab ID#: 126452
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	89.3	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	82.7	65-115	---
Toluene-d8	8260b	73.5	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126453 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-14
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:45

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)	789	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	276	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	247	µg/Kg	20	<20	03/06/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1780	µg/Kg	20	<20	03/06/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	701	µg/Kg	20	<20	03/06/02	8260b	---	1	88.1	99.1	97.1
Toluene	277	µg/Kg	20	<20	03/06/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

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Richard Laster

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-14

Report#/Lab ID#: 126453
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	90.6	50-150	---
p-Terphenyl	8015 mod.	136	50-150	---
1,2-Dichloroethane-d4	8260b	89.1	65-115	---
Toluene-d8	8260b	85	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126454 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-15
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:48

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)	519	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	161	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	200	µg/Kg	20	<20	03/06/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1400	µg/Kg	20	<20	03/06/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	548	µg/Kg	20	<20	03/06/02	8260b	---	1	88.1	99.1	97.1
Toluene	220	µg/Kg	20	<20	03/06/02	8260b	---	2.6	110.4	107	106.1

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Richard Laster

Richard Laster

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-15

Report#/Lab ID#: 126454
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.2	50-150	---
p-Terphenyl	8015 mod.	131	50-150	---
1,2-Dichloroethane-d4	8260b	98.2	65-115	---
Toluene-d8	8260b	90.8	50-120	---

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

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Client: Cypress Engineering
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126455 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-16
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:50

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)	616	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	106	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	98.9	µg/Kg	20	<20	03/06/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	695	µg/Kg	20	<20	03/06/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	216	µg/Kg	20	<20	03/06/02	8260b	---	1	88.1	99.1	97.1
Toluene	198	µg/Kg	20	<20	03/06/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-16

Report#/Lab ID#: 126455
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	123	50-150	---
p-Terphenyl	8015 mod.	143	50-150	---
1,2-Dichloroethane-d4	8260b	93.7	65-115	---
Toluene-d8	8260b	82.9	50-120	---

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

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Report#/Lab ID#: 126456 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-17
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:55

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)	597	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	110	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	106	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	749	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	228	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	240	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-17

Report#/Lab ID#: 126456
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	126	50-150	---
p-Terphenyl	8015 mod.	141	50-150	---
1,2-Dichloroethane-d4	8260b	98.5	65-115	---
Toluene-d8	8260b	88.8	50-120	---

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

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126457 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-18
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 14:58

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)	164	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	57.5	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	132	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	940	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	339	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	237	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-18

Report#/Lab ID#: 126457
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	79.9	50-150	---
p-Terphenyl	8015 mod.	85	50-150	---
1,2-Dichloroethane-d4	8260b	112	65-115	---
Toluene-d8	8260b	88.6	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126458 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-19
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:00

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)	874	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	258	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	222	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1500	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	559	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	306	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-19

Report#/Lab ID#: 126458
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	83.6	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	83.3	65-115	---
Toluene-d8	8260b	80.6	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126459 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-20
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:03

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)	653	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	250	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	254	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1700	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	622	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	432	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-20

Report#/Lab ID#: 126459
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.	138	50-150	---
1,2-Dichloroethane-d4	8260b	91.3	65-115	---
Toluene-d8	8260b	79.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126459 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-20

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 TNRCC-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.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126460 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-21
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:08

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)	411	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	176	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	247	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1680	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	639	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	363	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-21

Report#/Lab ID#: 126460
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	134	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	92	65-115	---
Toluene-d8	8260b	84.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126460 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-21

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.
- ☐ 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 TNRCC-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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126461 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-22
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:10

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)	519	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	286	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	282	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1930	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	749	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	383	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-22

Report#/Lab ID#: 126461
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	79.6	50-150	---
p-Terphenyl	8015 mod.	142	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	91.3	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126462 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-23
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:13

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)	597	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	233	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	241	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1650	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	640	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	310	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-23

Report#/Lab ID#: 126462
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	67.7	50-150	---
p-Terphenyl	8015 mod.	137	50-150	---
1,2-Dichloroethane-d4	8260b	93.5	65-115	---
Toluene-d8	8260b	84.3	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126463 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-24
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:15

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)	336	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	138	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	216	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1450	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	545	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	326	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-24

Report#/Lab ID#: 126463
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	109	50-150	---
p-Terphenyl	8015 mod.	122	50-150	---
1,2-Dichloroethane-d4	8260b	85.6	65-115	---
Toluene-d8	8260b	76.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126463 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-24

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 TNRCC-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.

Notes:

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Client: Cypress Engineering
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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126464 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-25
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:18

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)	384	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	204	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	320	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	2130	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	844	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	412	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-25

Report#/Lab ID#: 126464
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.8	50-150	---
p-Terphenyl	8015 mod.	117	50-150	---
1,2-Dichloroethane-d4	8260b	97	65-115	---
Toluene-d8	8260b	89.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126464 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-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).

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126465 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-26
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:19

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)	473	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	252	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.3	98.2	99.1	96.6
Ethylbenzene	285	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1940	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	782	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	329	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-26

Report#/Lab ID#: 126465
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	70.1	50-150	---
p-Terphenyl	8015 mod.	123	50-150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	95.9	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126466 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-27
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:22

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)	100	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	57.9	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	260	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1770	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	691	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	348	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-27

Report#/Lab ID#: 126466
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.5	50-150	---
p-Terphenyl	8015 mod.	51.1	50-150	---
1,2-Dichloroethane-d4	8260b	95.7	65-115	---
Toluene-d8	8260b	85.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126466 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-27

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.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126467 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-28
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:25

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)	477	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	187	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	306	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	2070	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	809	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	449	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-28

Report#/Lab ID#: 126467
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	51.4	50-150	---
p-Terphenyl	8015 mod.	99.7	50-150	---
1,2-Dichloroethane-d4	8260b	97.7	65-115	---
Toluene-d8	8260b	86.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126467 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-28

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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A J flag data qualifier indicates (as required under TNRCC-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.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126468 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-29
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:28

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)	460	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	202	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	290	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	1940	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	776	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	406	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-29

Report#/Lab ID#: 126468
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	127	50-150	---
p-Terphenyl	8015 mod.	104	50-150	---
1,2-Dichloroethane-d4	8260b	88.7	65-115	---
Toluene-d8	8260b	81.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126468 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-29

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.

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126469 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPS-30
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:30

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)	375	mg/Kg	5	<5	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	228	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	J	0.3	98.2	99.1	96.6
Ethylbenzene	328	µg/Kg	20	<20	03/07/02	8260b	---	0.8	91.5	103.1	99.3
m,p-Xylenes	2220	µg/Kg	20	<20	03/07/02	8260b	---	1.4	85.2	102.6	99.3
o-Xylene	877	µg/Kg	20	<20	03/07/02	8260b	---	1	88.1	99.1	97.1
Toluene	463	µg/Kg	20	<20	03/07/02	8260b	---	2.6	110.4	107	106.1

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Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPS-30

Report#/Lab ID#: 126469
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	56.3	50-150	---
p-Terphenyl	8015 mod.	128	50-150	---
1,2-Dichloroethane-d4	8260b	90.6	65-115	---
Toluene-d8	8260b	82.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126469 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPS-30

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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126470 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: Sand-1
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:40

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)	7.29	mg/Kg	5	<5	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	J	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	1.1	79	85.8	88.6
Ethylbenzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	1.5	100.3	99.3	100.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/06/02	8260b	---	1.1	99.6	100.4	100.8
o-Xylene	<20	µg/Kg	20	<20	03/06/02	8260b	---	0.2	95	96.1	102.9
Toluene	<20	µg/Kg	20	<20	03/06/02	8260b	---	3.1	80.8	84.6	83

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: Sand-1

Report#/Lab ID#: 126470
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	87.3	50-150	---
p-Terphenyl	8015 mod.	73.2	50-150	---
1,2-Dichloroethane-d4	8260b	85.2	65-115	---
Toluene-d8	8260b	90.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126470 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: Sand-1

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126471 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: Sand-2
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:42

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)	6.11	mg/Kg	5	<5	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	J	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/06/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	1.1	79	85.8	88.6
Ethylbenzene	<20	µg/Kg	20	<20	03/06/02	8260b	---	1.5	100.3	99.3	100.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/06/02	8260b	---	1.1	99.6	100.4	100.8
o-Xylene	<20	µg/Kg	20	<20	03/06/02	8260b	---	0.2	95	96.1	102.9
Toluene	<20	µg/Kg	20	<20	03/06/02	8260b	---	3.1	80.8	84.6	83

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: Sand-2

Report#/Lab ID#: 126471
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	94.2	50-150	---
p-Terphenyl	8015 mod.	71.1	50-150	---
1,2-Dichloroethane-d4	8260b	85.3	65-115	---
Toluene-d8	8260b	87.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126471 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: Sand-2

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126472 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: Sand-3
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:44

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)	15.5	mg/Kg	5	<5	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	J	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	79	85.8	88.6
Ethylbenzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.5	100.3	99.3	100.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	99.6	100.4	100.8
o-Xylene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.2	95	96.1	102.9
Toluene	<20	µg/Kg	20	<20	03/07/02	8260b	---	3.1	80.8	84.6	83

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Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: Sand-3

Report#/Lab ID#: 126472
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	96.1	50-150	---
p-Terphenyl	8015 mod.	83.8	50-150	---
1,2-Dichloroethane-d4	8260b	85.4	65-115	---
Toluene-d8	8260b	95.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126472 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: Sand-3

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 TNRCC-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.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126473 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: Sand-4
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:46

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)	50.6	mg/Kg	5	<5	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	J	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	79	85.8	88.6
Ethylbenzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.5	100.3	99.3	100.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	99.6	100.4	100.8
o-Xylene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.2	95	96.1	102.9
Toluene	<20	µg/Kg	20	<20	03/07/02	8260b	---	3.1	80.8	84.6	83

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Respectfully Submitted,

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: Sand-4

Report#/Lab ID#: 126473
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	92.8	50-150	---
p-Terphenyl	8015 mod.	95.8	50-150	---
1,2-Dichloroethane-d4	8260b	87	65-115	---
Toluene-d8	8260b	91.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126473 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: Sand-4

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126474 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: Sand-5
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:48

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)	5.94	mg/Kg	5	<5	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	J	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	79	85.8	88.6
Ethylbenzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.5	100.3	99.3	100.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	99.6	100.4	100.8
o-Xylene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.2	95	96.1	102.9
Toluene	<20	µg/Kg	20	<20	03/07/02	8260b	---	3.1	80.8	84.6	83

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Respectfully Submitted,

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: Sand-5

Report#/Lab ID#: 126474
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	92.1	50-150	---
p-Terphenyl	8015 mod.	71.9	50-150	---
1,2-Dichloroethane-d4	8260b	90.1	65-115	---
Toluene-d8	8260b	90.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126474 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: Sand-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

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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126475 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: Sand-6
Sample Matrix: soil
Date Received: 03/06/2002 **Time:** 10:34
Date Sampled: 03/05/2002 **Time:** 15:52

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)	8.8	mg/Kg	5	<5	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	J	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/07/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	79	85.8	88.6
Ethylbenzene	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.5	100.3	99.3	100.4
m,p-Xylenes	<20	µg/Kg	20	<20	03/07/02	8260b	---	1.1	99.6	100.4	100.8
o-Xylene	<20	µg/Kg	20	<20	03/07/02	8260b	---	0.2	95	96.1	102.9
Toluene	<20	µg/Kg	20	<20	03/07/02	8260b	---	3.1	80.8	84.6	83

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Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: Sand-6

Report#/Lab ID#: 126475
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	116	50-150	---
p-Terphenyl	8015 mod.	96.8	50-150	---
1,2-Dichloroethane-d4	8260b	84.5	65-115	---
Toluene-d8	8260b	95.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126475 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: Sand-6

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

CHAIN-OF-CUSTODY

1762

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Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM ECN 4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867

Bill to (if different)
Company Name SAME — ENRON PIPELINE INC
Address
City State Zip
ATTN:
Phone Fax

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Rush Status (must be confirmed with lab mgr.): ASAP
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (GRO-GRO)							Comments
SPW-17	3-5-02	1300	1	✓			126432	✓	✓							
SPW-18		1303	1	✓			126433	✓	✓							
SPW-19		1305	1	✓			126434	✓	✓							
SPW-20		1308	1	✓			126435	✓	✓							
SPW-21		1310	1	✓			126436	✓	✓							
SPW-22		1312	1	✓			126437	✓	✓							
SPW-23		1315	1	✓			126438	✓	✓							
SPW-24		1318	1	✓			126439	✓	✓							
SPS-1		1350	1	✓			126440	✓	✓							
SPS-2		1355	1	✓			126441	✓	✓							

Rush

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
GEORGE FRIEND	CYPRESS ENG	3-5-02	1700	Melanie Humphrey	ASI	3/6/02	10:34

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

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

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Address 1400 SMITH ROOM ECN 4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345 1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): ASAP
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 Mod (DRO-GRO)							Comments
SPS-3	3-5-02	1359	1	✓			126442	✓	✓							
SPS-4		1400	1	✓			126443	✓	✓							
SPS-5		1403	1	✓			126444	✓	✓							
SPS-6		1412	1	✓			126445	✓	✓							
SPS-7		1415	1	✓			126446	✓	✓							
SPS-8		1420	1	✓			126447	✓	✓							
SPS-9		1423	1	✓			126448	✓	✓							
SPS-10		1430	1	✓			126449	✓	✓							
SPS-11		1435	1	✓			126450	✓	✓							
SPS-12		1440	1	✓			126451	✓	✓							

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-5-02	1700	Melanie Humphry	ASI	3/6/02	10:34

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

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City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7967

Bill to (if different):
Company Name SAME. ENRON PRICEING
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.): ASAP.
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (PRO-GRO)							Comments
SPS-13	3-5-02	1443	1	✓			126452	✓	✓							
SPS-14		1445	1	✓			126453	✓	✓							
SPS-15		1448	1	✓			126454	✓	✓							
SPS-16		1450	1	✓			126455	✓	✓							
SPS-17		1455	1	✓			126456	✓	✓							
SPS-18		1458	1	✓			126457	✓	✓							
SPS-19		1500	1	✓			126458	✓	✓							
SPS-20		1503	1	✓			126459	✓	✓							
SPS-21		1508	1	✓			126460	✓	✓							
SPS-22		1510	1	✓			126461	✓	✓							

RUSH

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG.	3-5-02	1700	Melanie Humphrey	ASI	3/6/02	10:34

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

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM ECN 4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): ASAP
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (PRO-GRO)							Comments
SPS 23	3-5-02	1513	1	✓			126462	✓	✓							
SPS - 24		1515	1	✓			126463	✓	✓							
SPS - 25		1518	1	✓			126464	✓	✓							
SPS - 26		1519	1	✓			126465	✓	✓							RUSH
SPS - 27		1522	1	✓			126466	✓	✓							
SPS - 28		1525	1	✓			126467	✓	✓							
SPS - 29		1528	1	✓			126468	✓	✓							
SPS - 30		1530	1	✓			126469	✓	✓							
SAND - 1		1540	1	✓			126470	✓	✓							
SAND - 2		1542	1	✓			126471	✓	✓							

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-5-02	1700	Melanie Humphrey	ASI	3/6/02	10:34

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AnalySys Inc.
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(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM ECN 4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE FRIEND
Phone (713) 345-1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): ASAP.
Project Name/PO#: ROSWELL AT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (DRO-GRO)								Comments
SAWA-3	3-5-02	1544	1	✓			126472	✓	✓								
SAWA-4		1546	1	✓			126473	✓	✓								
SAWA-5		1548	1	✓			126474	✓	✓								
SAWA-6		1552	1	✓			126475	✓	✓								

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG.	3-5-02	1700	Melanie Humphrey	ASI	3/6/02	10:34

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

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126580 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 08:50

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)	299	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	85.8	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	438	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	281	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-1

Report#/Lab ID#: 126580
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	10.1	102.4	103.8	101.8
2-Hexanone	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<250	µg/Kg	250	<250	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<250	µg/Kg	250	<250	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<250	µg/Kg	250	<250	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	1.2	145.9	123	99

ANALYSYS INC.
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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-1

Report#/Lab ID#: 126580
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	9.9	90.8	96.8	102.2
Methylene chloride	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	8.3	107.5	98.3	95.3
MTBE	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	46.1	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	117	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	10.9	95.9	101.7	101.9
sec-Butylbenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	8.7	96.6	101.8	103.7
Styrene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	79.5	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	524	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	180	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	126	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-1

Report#/Lab ID#: 126580
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	88.2	88-137	---
4-Bromofluorobenzene	624 & 8260b	128.2	85-157	---
Toluene-d8	624 & 8260b	108.1	87-122	---
Nitrobenzene-d5	8015 mod.	124	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	79.9	65-115	---
Toluene-d8	8260b	84.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126580 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-1

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
Isopropylbenzene	J	See J-flag discussion above.
Methylene chloride	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
Tetrachloroethene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126581 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 08:55

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)	273	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	198	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	981	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	648	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-2

Report#/Lab ID#: 126581
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	10.1	102.4	103.8	101.8
2-Hexanone	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	4.9	109.3	94.1	95.6
Acetone	<250	µg/Kg	250	<250	03/20/02	624 & 8260b	J	7	100.2	89.3	85.1
Acetonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<250	µg/Kg	250	<250	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<250	µg/Kg	250	<250	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	1.2	145.9	123	99

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-2

Report#/Lab ID#: 126581
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	42.6	µg/Kg	25	<25	03/20/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	105	µg/Kg	25	<25	03/20/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	285	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	35.3	µg/Kg	25	<25	03/20/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	32.8	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	J	10.3	98	96.4	101.9
tert-Butylbenzene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	41	µg/Kg	25	<25	03/20/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<25	µg/Kg	25	<25	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	214	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	1330	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	526	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	224	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-2

Report#/Lab ID#: 126581
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	91.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	132.4	85-157	---
Toluene-d8	624 & 8260b	112.4	87-122	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	76.1	65-115	---
Toluene-d8	8260b	91.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126581 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-2

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Butanone (MEK)	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
4-Methyl-2-pentanone (MIBK)	J	See J-flag discussion above.
Acetone	J	See J-flag discussion above.
Styrene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126582 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	435	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	426	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	2110	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	1290	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-3

Report#/Lab ID#: 126582
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.1	102.4	103.8	101.8
2-Hexanone	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	16.4	103.3	91.1	97.2
4-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.2	145.9	123	99

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-3

Report#/Lab ID#: 126582
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	53.8	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	8.3	107.5	98.3	95.3
MTBE	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	263	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	541	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.9	95.9	101.7	101.9
sec-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	8.7	96.6	101.8	103.7
Styrene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	897	µg/Kg	200	<200	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	35.5	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	323	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	2520	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	734	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	914	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-3

Report#/Lab ID#: 126582
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	88.4	88-137	---
4-Bromofluorobenzene	624 & 8260b	110.6	85-157	---
Toluene-d8	624 & 8260b	106.1	87-122	---
Nitrobenzene-d5	8015 mod.	70.1	50-150	---
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	112	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126582 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-3

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 TNRCC-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
1,2,3-Trichlorobenzene	J	See J-flag discussion above.
1,2,4-Trichlorobenzene	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
2-Hexanone	J	See J-flag discussion above.
Methylene chloride	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040
Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126583 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-4
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	421	mg/Kg	5	<5	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	68.4	mg/Kg	5	<5	03/12/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	J	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	J	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	423	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	J	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	275	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-4

Report#/Lab ID#: 126583
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	J	10.1	102.4	103.8	101.8
2-Hexanone	<40	µg/Kg	40	<40	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	141	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	J	7.2	100	92	98.8
Bromoform	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-4

Report#/Lab ID#: 126583
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	J	9.9	90.8	96.8	102.2
Methylene chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	30.3	µg/Kg	10	<10	03/20/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	231	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	12.7	µg/Kg	10	<10	03/20/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	12.3	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	18.4	µg/Kg	10	<10	03/20/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	75.1	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	534	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	166	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	125	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-4

Report#/Lab ID#: 126583
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	97.4	88-137	---
4-Bromofluorobenzene	624 & 8260b	145.4	85-157	---
Toluene-d8	624 & 8260b	112.2	87-122	---
Nitrobenzene-d5	8015 mod.	123	50-150	---
p-Terphenyl	8015 mod.	138	50-150	---
1,2-Dichloroethane-d4	8260b	83.4	65-115	---
Toluene-d8	8260b	88.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126583 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-4

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,1,2-Trichloroethane	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
Bromodichloromethane	J	See J-flag discussion above.
Isopropylbenzene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

AnalySys Inc.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126584 **Report Date:** 03/22/02
Project ID: Roswell Pit #1
Sample Name: PB-5
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:10

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)	830	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	697	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	4.7	114	99.6	99.8
1,1-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	2430	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	4	110.2	89.2	88.8
1,2-Dibromoethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	1490	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-5

Report#/Lab ID#: 126584
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	6.2	95.2	107.4	99.1
2-Hexanone	<400	µg/Kg	400	<400	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	1880	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	5.9	79.4	75.6	69.4
Carbon disulfide	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-5

Report#/Lab ID#: 126584
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	114	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	301	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	888	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	144	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	134	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	718	µg/Kg	200	<200	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	174	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	524	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	3850	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	1030	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	2060	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-5

Report#/Lab ID#: 126584
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	75.45	65-115	---
4-Bromofluorobenzene	624 & 8260b	92.15	50-120	---
Toluene-d8	624 & 8260b	91.45	50-120	---
Nitrobenzene-d5	8015 mod.	145	50-150	---
p-Terphenyl	8015 mod.	99.9	50-150	---
1,2-Dichloroethane-d4	8260b	68.8	65-115	---
Toluene-d8	8260b	78.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126584 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,1,2-Trichloroethane	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
1,2-Dichloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
Bromomethane	J	See J-flag discussion above.
Chloromethane	J	See J-flag discussion above.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126585 **Report Date:** 03/22/02
Project ID: Roswell Pit #1
Sample Name: PB-6
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:05

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)	642	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	621	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	509	µg/Kg	200	<200	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	3000	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	4	110.2	89.2	88.8
1,2-Dibromoethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	1720	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-6

Report#/Lab ID#: 126585
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	6.2	95.2	107.4	99.1
2-Hexanone	<400	µg/Kg	400	<400	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	J	1.4	95	77.8	84.1
Acetonitrile	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-6

Report#/Lab ID#: 126585
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	217	µg/Kg	200	<200	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	430	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	944	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	200	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	167	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	1.6	99.9	107.8	105.1
tert-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	1420	µg/Kg	200	<200	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	429	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	812	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	5590	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	1470	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	3550	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-6

Report#/Lab ID#: 126585
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	81.35	65-115	---
4-Bromofluorobenzene	624 & 8260b	96	50-120	---
Toluene-d8	624 & 8260b	99.95	50-120	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	74	65-115	---
Toluene-d8	8260b	89	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126585 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-6

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 TNRCC-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-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
Acetone	J	See J-flag discussion above.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Styrene	J	See J-flag discussion above.
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126586 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-7
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:20

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)	1120	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	503	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	1370	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	857	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-7

Report#/Lab ID#: 126586
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	1630	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	614	µg/Kg	500	<500	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.2	145.9	123	99

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-7

Report#/Lab ID#: 126586
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	77.1	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	215	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	426	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	62.6	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	66.5	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98	96.4	101.9
tert-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	87.6	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	73.8	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	493	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	2930	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	818	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	1240	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-7

Report#/Lab ID#: 126586
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	92.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	115.3	85-157	---
Toluene-d8	624 & 8260b	109	87-122	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	68.5	65-115	---
Toluene-d8	8260b	83	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126586 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-7

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 TNRCC-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
1,2,3-Trichlorobenzene	J	See J-flag discussion above.
1,2,4-Trichlorobenzene	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
Styrene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126587 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-8
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:25

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)	990	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	494	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	2260	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	1310	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-8

Report#/Lab ID#: 126587
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	2070	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	710	µg/Kg	500	<500	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-8

Report#/Lab ID#: 126587
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	96	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	8.3	107.5	98.3	95.3
MTBE	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	301	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	615	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	114	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	107	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98	96.4	101.9
tert-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	692	µg/Kg	200	<200	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	49.9	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	262	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	1990	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	539	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	1470	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-8

Report#/Lab ID#: 126587
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	90.3	88-137	---
4-Bromofluorobenzene	624 & 8260b	119	85-157	---
Toluene-d8	624 & 8260b	107.3	87-122	---
Nitrobenzene-d5	8015 mod.	93.8	50-150	---
p-Terphenyl	8015 mod.	131	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	77.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126587 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-8

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 TNRCC-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
1,1,1-Trichloroethane	J	See J-flag discussion above.
1,2,3-Trichlorobenzene	J	See J-flag discussion above.
1,2,4-Trichlorobenzene	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Butanone (MEK)	J	See J-flag discussion above.
Methylene chloride	J	See J-flag discussion above.
Styrene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126588 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-9
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	454	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	469	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	247	µg/Kg	200	<200	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	2290	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	1600	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-9

Report#/Lab ID#: 126588
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	J	9.1	132.1	95	88.7
2,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	757	µg/Kg	500	<500	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	5.9	99.2	98.7	102.6
Chloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.2	145.9	123	99

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-9

Report#/Lab ID#: 126588
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	137	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	354	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	445	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	118	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	125	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.3	98	96.4	101.9
tert-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	503	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	81.6	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	323	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	2540	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	681	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	1750	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

ANALYSYS INC.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-9

Report#/Lab ID#: 126588
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	93	88-137	---
4-Bromofluorobenzene	624 & 8260b	118.4	85-157	---
Toluene-d8	624 & 8260b	109.9	87-122	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	97.6	65-115	---
Toluene-d8	8260b	84	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126588 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-9

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 TNRCC-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-Dibromo-3-chloropropane	J	See J-flag discussion above.
1,4-Dioxane	J	See J-flag discussion above.
2-Butanone (MEK)	J	See J-flag discussion above.
Chlorobenzene	J	See J-flag discussion above.
Styrene	J	See J-flag discussion above.
Trichloroethene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126589 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: PB-10
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:45

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)	444	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	366	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	1070	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	712	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-10

Report#/Lab ID#: 126589
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.1	102.4	103.8	101.8
2-Hexanone	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	599	µg/Kg	500	<500	03/20/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<500	µg/Kg	500	<500	03/20/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.2	145.9	123	99

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-10

Report#/Lab ID#: 126589
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	9.9	90.8	96.8	102.2
Methylene chloride	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	8.4	97.9	101.8	106.1
n-Propylbenzene	61.8	µg/Kg	50	<50	03/20/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	269	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	10.9	95.9	101.7	101.9
sec-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	8.7	96.6	101.8	103.7
Styrene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	J	15.5	93.9	99.8	102.8
Tetrachloroethene	53.9	µg/Kg	50	<50	03/20/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	34.8	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	215	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	1550	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	439	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	956	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-10

Report#/Lab ID#: 126589
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	89.6	88-137	---
4-Bromofluorobenzene	624 & 8260b	111.6	85-157	---
Toluene-d8	624 & 8260b	109.4	87-122	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	79.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126589 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-10

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 TNRCC-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
1,1,2-Trichloroethane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
4-Chlorotoluene	J	See J-flag discussion above.
Isopropylbenzene	J	See J-flag discussion above.
n-Butylbenzene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.
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.

Notes: _____

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126590 **Report Date:** 03/22/02
Project ID: Roswell Pit #1
Sample Name: PB-11
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	855	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	301	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	2900	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	4	110.2	89.2	88.8
1,2-Dibromoethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	1850	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-11

Report#/Lab ID#: 126590
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	6.2	95.2	107.4	99.1
2-Hexanone	<400	µg/Kg	400	<400	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	J	1.4	95	77.8	84.1
Acetonitrile	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	5.3	107.4	112.7	103.4
Bromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-11

Report#/Lab ID#: 126590
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	265	µg/Kg	200	<200	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	461	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	575	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	180	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	201	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	1.6	99.9	107.8	105.1
tert-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	140	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.2	92	97.1	91.9
Ethylbenzene	585	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	3600	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	1280	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	1140	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-11

Report#/Lab ID#: 126590
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	87.55	88-137	X
4-Bromofluorobenzene	624 & 8260b	103.5	85-157	---
Toluene-d8	624 & 8260b	107.35	87-122	---
Nitrobenzene-d5	8015 mod.	133	50-150	---
p-Terphenyl	8015 mod.	118	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	82.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126590 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-11

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
1,2-Dichloropropane	J	See J-flag discussion above.
2-Butanone (MEK)	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
Acetone	J	See J-flag discussion above.
Bromobenzene	J	See J-flag discussion above.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Styrene	J	See J-flag discussion above.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	X X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
Benzene	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126591 **Report Date:** 03/22/02
Project ID: Roswell Pit #1
Sample Name: PB-12
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:35

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)	1170	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	798	mg/Kg	50	<50	03/12/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	460	µg/Kg	200	<200	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	4530	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	J	4	110.2	89.2	88.8
1,2-Dibromoethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	2670	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-12

Report#/Lab ID#: 126591
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	9.7	93.8	110.2	91.2
2-Butanone (MEK)	508	µg/Kg	200	<200	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<400	µg/Kg	400	<400	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	2740	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<2000	µg/Kg	2000	<2000	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<1000	µg/Kg	1000	<1000	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	J	5.3	107.4	112.7	103.4
Bromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-12

Report#/Lab ID#: 126591
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	460	µg/Kg	200	<200	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	799	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	2390	µg/Kg	200	<200	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	274	µg/Kg	200	<200	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	307	µg/Kg	200	<200	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	339	µg/Kg	200	<200	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<200	µg/Kg	200	<200	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	423	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	1140	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	6410	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	2280	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	4460	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-12

Report#/Lab ID#: 126591
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	73.4	88-137	X
4-Bromofluorobenzene	624 & 8260b	93.3	85-157	---
Toluene-d8	624 & 8260b	94.7	87-122	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	101	65-115	---
Toluene-d8	8260b	68.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126591 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-12

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,1-Dichloroethane	J	See J-flag discussion above.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2,2-Dichloropropane	J	See J-flag discussion above.
Bromobenzene	J	See J-flag discussion above.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
1,2-Dichloroethane-d4 1,2-Dichloroethane-d4	X X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
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.

Notes: _____

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126592 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: NW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:40

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-1

Report#/Lab ID#: 126592
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	J	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-1

Report#/Lab ID#: 126592
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-1

Report#/Lab ID#: 126592
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	99.5	88-137	---
4-Bromofluorobenzene	624 & 8260b	99.4	85-157	---
Toluene-d8	624 & 8260b	98.9	87-122	---
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	63.8	50-150	---
1,2-Dichloroethane-d4	8260b	93	65-115	---
Toluene-d8	8260b	87.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126592 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: NW-1

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 TNRCC-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.
Acetone	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126593 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: NW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:42

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-2

Report#/Lab ID#: 126593
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	J	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-2

Report#/Lab ID#: 126593
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-2

Report#/Lab ID#: 126593
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	107.6	88-137	---
4-Bromofluorobenzene	624 & 8260b	107.8	85-157	---
Toluene-d8	624 & 8260b	100.7	87-122	---
Nitrobenzene-d5	8015 mod.	106	50-150	---
p-Terphenyl	8015 mod.	77	50-150	---
1,2-Dichloroethane-d4	8260b	92.6	65-115	---
Toluene-d8	8260b	86.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126593 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: NW-2

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 TNRCC-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.
Chloromethane	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126594 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: NW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:45

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)	26.7	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	9.33	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	7.85	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-3

Report#/Lab ID#: 126594
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-3

Report#/Lab ID#: 126594
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	7.18	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-3

Report#/Lab ID#: 126594
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	107.3	88-137	---
4-Bromofluorobenzene	624 & 8260b	120	85-157	---
Toluene-d8	624 & 8260b	106.5	87-122	---
Nitrobenzene-d5	8015 mod.	117	50-150	---
p-Terphenyl	8015 mod.	107	50-150	---
1,2-Dichloroethane-d4	8260b	88.6	65-115	---
Toluene-d8	8260b	83.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126594 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: NW-3

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 TNRCC-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
1,2,4-Trimethylbenzene	J	See J-flag discussion above.
n-Butylbenzene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126595 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: EW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:48

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-1

Report#/Lab ID#: 126595
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	J	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

ANALYSYS INC.
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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-1

Report#/Lab ID#: 126595
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-1

Report#/Lab ID#: 126595
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	107.8	88-137	---
4-Bromofluorobenzene	624 & 8260b	103.7	85-157	---
Toluene-d8	624 & 8260b	99.9	87-122	---
Nitrobenzene-d5	8015 mod.	104	50-150	---
p-Terphenyl	8015 mod.	82.9	50-150	---
1,2-Dichloroethane-d4	8260b	94.4	65-115	---
Toluene-d8	8260b	86.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126595 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: EW-1

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 TNRCC-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.
Chloromethane	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126596 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: EW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:50

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-2

Report#/Lab ID#: 126596
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-2

Report#/Lab ID#: 126596
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-2

Report#/Lab ID#: 126596
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	107.3	88-137	---
4-Bromofluorobenzene	624 & 8260b	106.3	85-157	---
Toluene-d8	624 & 8260b	98.3	87-122	---
Nitrobenzene-d5	8015 mod.	113	50-150	---
p-Terphenyl	8015 mod.	85	50-150	---
1,2-Dichloroethane-d4	8260b	90.3	65-115	---
Toluene-d8	8260b	89.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126596 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: EW-2

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 TNRCC-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.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126597 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: EW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:53

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-3

Report#/Lab ID#: 126597
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-3

Report#/Lab ID#: 126597
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-3

Report#/Lab ID#: 126597
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	107.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	105.5	85-157	---
Toluene-d8	624 & 8260b	101.8	87-122	---
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	102	50-150	---
1,2-Dichloroethane-d4	8260b	95.6	65-115	---
Toluene-d8	8260b	89.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126597 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: EW-3

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 TNRCC-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.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126598 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: SW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:55

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-1

Report#/Lab ID#: 126598
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-1

Report#/Lab ID#: 126598
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-1

Report#/Lab ID#: 126598
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	105.3	88-137	---
4-Bromofluorobenzene	624 & 8260b	105.3	85-157	---
Toluene-d8	624 & 8260b	100.5	87-122	---
Nitrobenzene-d5	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	92.7	50-150	---
1,2-Dichloroethane-d4	8260b	90.2	65-115	---
Toluene-d8	8260b	90.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126598 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SW-1

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 TNRCC-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
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126599 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: SW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:58

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)	101	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	26.7	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	50.1	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	31.8	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-2

Report#/Lab ID#: 126599
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	J	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-2

Report#/Lab ID#: 126599
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	11.5	98.2	101.5	105.4
Naphthalene	24.3	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	J	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	33.7	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	J	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-2

Report#/Lab ID#: 126599
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	111.1	88-137	---
4-Bromofluorobenzene	624 & 8260b	128.3	85-157	---
Toluene-d8	624 & 8260b	105.3	87-122	---
Nitrobenzene-d5	8015 mod.	93.1	50-150	---
p-Terphenyl	8015 mod.	122	50-150	---
1,2-Dichloroethane-d4	8260b	99	65-115	---
Toluene-d8	8260b	84.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126599 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SW-2

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2,3-Trichloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
4-Chlorotoluene	J	See J-flag discussion above.
Acetone	J	See J-flag discussion above.
n-Propylbenzene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.
o-Xylene	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126600 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: SW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 11:05

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	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/12/02	8015 mod.	J	2.7	98.7	111.5	100.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-3

Report#/Lab ID#: 126600
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

ANALYSYS INC.
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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-3

Report#/Lab ID#: 126600
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-3

Report#/Lab ID#: 126600
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	108.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	108.7	85-157	---
Toluene-d8	624 & 8260b	100.9	87-122	---
Nitrobenzene-d5	8015 mod.	116	50-150	---
p-Terphenyl	8015 mod.	106	50-150	---
1,2-Dichloroethane-d4	8260b	93.6	65-115	---
Toluene-d8	8260b	92.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126600 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SW-3

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 TNRCC-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.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126601 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: WW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 11:08

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	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-1

Report#/Lab ID#: 126601
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-1

Report#/Lab ID#: 126601
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-1

Report#/Lab ID#: 126601
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	103.8	88-137	---
4-Bromofluorobenzene	624 & 8260b	114	85-157	---
Toluene-d8	624 & 8260b	103.6	87-122	---
Nitrobenzene-d5	8015 mod.	108	50-150	---
p-Terphenyl	8015 mod.	89.3	50-150	---
1,2-Dichloroethane-d4	8260b	94.9	65-115	---
Toluene-d8	8260b	92.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126601 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: WW-1

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 TNRCC-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
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126602 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: WW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 11:10

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	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-2

Report#/Lab ID#: 126602
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-2

Report#/Lab ID#: 126602
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-2

Report#/Lab ID#: 126602
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	110.2	88-137	---
4-Bromofluorobenzene	624 & 8260b	105.5	85-157	---
Toluene-d8	624 & 8260b	102.9	87-122	---
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	84	50-150	---
1,2-Dichloroethane-d4	8260b	89.3	65-115	---
Toluene-d8	8260b	82.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126602 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: WW-2

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 TNRCC-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
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126603 **Report Date:** 03/21/02
Project ID: Roswell Pit #1
Sample Name: WW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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	03/12/02	8015 mod.	J	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/12/02	8015 mod.	J	2.7	98.7	111.5	100.5
Volatile organics-8260	---	---	---	---	03/19/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.5	98.3	94.8	101.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.4	101.2	100.8	96.5
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.8	113.3	93.8	101.3
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.3	107.4	93.5	99.4
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.5	109.6	104.1	97.4
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.3	105.2	103.8	98.2
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5	100.1	103.7	99
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.4	109.3	90.9	86.2
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98.2	102.9	101.4
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.2	99.3	101.3	103
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.4	107.1	92.4	92.1
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.6	103	95	96.1
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	101.4	99.6	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	104.2	90.2	96
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	103	96.1	98.1
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	97.3	100.2	99.4

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-3

Report#/Lab ID#: 126603
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.7	102.5	98.2	102
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.1	103	95.4	98.8
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	99.5	98.1	101.3
1,4-Dioxane	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	9.1	132.1	95	88.7
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.2	109.7	95.2	102.6
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	2.9	112.7	104.7	93.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	46.1	136.5	174.4	109.1
2-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.1	102.4	103.8	101.8
2-Hexanone	<20	µg/Kg	20	<20	03/19/02	624 & 8260b	---	16.4	103.3	91.1	97.2
4-Chlorotoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	3.9	101.8	94.5	103.8
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.9	109.3	94.1	95.6
Acetone	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	7	100.2	89.3	85.1
Acetonitrile	<100	µg/Kg	100	<100	03/19/02	624 & 8260b	---	5.1	112.7	100.6	88.4
Acrolein	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	8	134.6	98.6	104.9
Acrylonitrile	<50	µg/Kg	50	<50	03/19/02	624 & 8260b	---	25.4	115.7	97.9	87.1
Bromobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.4	103.1	99.1	102.5
Bromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	0.5	111.5	100.3	92.7
Bromodichloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	7.2	100	92	98.8
Bromoform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14.2	99.5	94.6	96.9
Bromomethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	13.7	67.8	103.8	89.3
Carbon disulfide	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.9	102	102.6	101
Carbon tetrachloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.2	95.7	93.2	98.8
Chlorobenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.9	99.2	98.7	102.6
Chloroethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.1	102	96	94
Chloroform	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	4.6	105.4	99.7	99.1
Chloromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	10.6	89.8	129.8	100
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	2.8	110.5	106.3	101.7
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	5.1	109.1	98.1	106.3
Dibromochloromethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	104	93.1	99.3
Dibromomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	6.6	103.7	94	97.7
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	5.9	100	103.1	98.4
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	12.8	79.5	104.7	101.8
Iodomethane	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	1.2	145.9	123	99

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-3

Report#/Lab ID#: 126603
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	9.9	90.8	96.8	102.2
Methylene chloride	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	107.5	98.3	95.3
MTBE	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	3.9	137.5	114.3	110.5
n-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.4	97.9	101.8	106.1
n-Propylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.5	98.2	101.5	105.4
Naphthalene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	11.2	99.4	101.2	94.2
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.9	95.9	101.7	101.9
sec-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.7	96.6	101.8	103.7
Styrene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	10.3	98	96.4	101.9
tert-Butylbenzene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	15.5	93.9	99.8	102.8
Tetrachloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	14	89.3	96.7	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	20.5	84.9	105.9	83.8
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	12.2	108.5	95.1	107.4
Trichloroethene	<5	µg/Kg	5	<5	03/19/02	624 & 8260b	---	8.3	91.8	99.5	100.1
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	4.3	101.9	99.3	99
Vinyl acetate	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	S1	8.4	282.4	94.8	182.2
Vinyl chloride	<10	µg/Kg	10	<10	03/19/02	624 & 8260b	---	8.5	107.3	92.3	101.6
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-3

Report#/Lab ID#: 126603
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	111.1	88-137	---
4-Bromofluorobenzene	624 & 8260b	111.7	85-157	---
Toluene-d8	624 & 8260b	100.2	87-122	---
Nitrobenzene-d5	8015 mod.	110	50-150	---
p-Terphenyl	8015 mod.	90.7	50-150	---
1,2-Dichloroethane-d4	8260b	101	65-115	---
Toluene-d8	8260b	90.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126603 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: WW-3

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 TNRCC-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.
TPH by GC (as gasoline)	J	See J-flag discussion above.
Vinyl acetate	S1	MS and/or MSD recoveries outside advisory/acceptance limits & either no LCS or LCS recovery outside advisory/acceptance limits.

Notes:

CHAIN-OF-CUSTODY

1753

AnalySys Inc.
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Phone: (713) 345-1537 Fax: (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): ~~ASAP~~ STANDARD
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (DRO-GRO)	VOC-8240						Comments
PB-1	3-6-02	0850	1	✓			126580	✓	✓	X						
PB-2		0855	1	✓			126581	✓	✓	X						
PB-3		0900	1	✓			126582	✓	✓	X						
PB-4		0915	1	✓			126583	✓	✓	X						
PB-5		0910	1	✓			126584	✓	✓	X						
PB-6		0905	1	✓			126585	✓	✓	X						
PB-7		0920	1	✓			126586	✓	✓	X						
PB-8		0925	1	✓			126587	✓	✓	X						
PB-9		0930	1	✓			126588	✓	✓	X						
PB-10	0945	~~0945~~	1	✓			126589	✓	✓	X						

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENV	3-6-02	1700	Melanie Humphrey	ASI	3/7/02	10:54

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

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Phone: (713) 345-1537 Fax: (713) 646-7967

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

Rush Status (must be confirmed with lab mgr.): STANDARD
Project Name/PO#: ROSWELL AIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 mod. (DRO-GRO)	VOC 8260					Comments
PB-11	3-6-02	0940	1	✓			126590	✓	✓	X					
PB-12		0935	1	✓			126591	✓	✓	X					
NW-1		1040	1	✓			126592	✓	✓	X					
NW-2		1042	1	✓			126593	✓	✓	X					
NW-3		1045	1	✓			126594	✓	✓	X					
EW-1		1048	1	✓			126595	✓	✓	X					
EW-2		1050	1	✓			126596	✓	✓	X					
EW-3		1053	1	✓			126597	✓	✓	X					
SW-1		1055	1	✓			126598	✓	✓	X					
SW-2		1058	1	✓			126599	✓	✓	X					

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENV.	3-6-02	1700	Melanie Humphrey	ASI	3/7/02	10:54

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

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Phone: (713) 345-1537 Fax: (713) 646 7867

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

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIERY

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	DTEX 8260B	TPH 8015 MOD (PRE-GRO)		VOC 8260						Comments
SW-3	3-6-02	1105	1	✓			126600	✓	✓		X						
WW-1		1108	1	✓			126601	✓	✓		X						
WW-2		1110	1	✓			126602	✓	✓		X						
WW-3		1115	1	✓			126603	✓	✓		X						

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIERY	CYPRESS E&P	3-6-02	1700	Melanie Humphrey	ASI	3/7/02	10:54

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126580 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 08:50

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)	299	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	85.8	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	79.5	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	524	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	180	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	126	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-1

Report#/Lab ID#: 126580
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	124	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	79.9	65-115	---
Toluene-d8	8260b	84.5	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126581 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 08:55

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)	273	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	198	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	214	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	1330	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	526	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	224	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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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.

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4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-2

Report#/Lab ID#: 126581
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	76.1	65-115	---
Toluene-d8	8260b	91.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126581 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-2

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 TNRCC-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
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126582 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	435	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	426	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	35.5	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	323	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	2520	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	734	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	914	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-3

Report#/Lab ID#: 126582
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	70.1	50-150	---
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	112	50-120	---

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

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126583 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-4
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	421	mg/Kg	5	<5	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	68.4	mg/Kg	5	<5	03/12/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	75.1	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	534	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	166	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	125	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-4

Report#/Lab ID#: 126583
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	123	50-150	---
p-Terphenyl	8015 mod.	138	50-150	---
1,2-Dichloroethane-d4	8260b	83.4	65-115	---
Toluene-d8	8260b	88.6	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126584 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-5
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:10

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)	830	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	697	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	174	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	524	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	3850	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	1030	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	2060	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-5

Report#/Lab ID#: 126584
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	145	50-150	---
p-Terphenyl	8015 mod.	99.9	50-150	---
1,2-Dichloroethane-d4	8260b	68.8	65-115	---
Toluene-d8	8260b	78.7	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126585 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-6
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:05

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)	642	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	621	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	429	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	812	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	5590	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	1470	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	3550	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-6

Report#/Lab ID#: 126585
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	74	65-115	---
Toluene-d8	8260b	89	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126585 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-6

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 TNRCC-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
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126586 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-7
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:20

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)	1120	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	503	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	73.8	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	493	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	2930	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	818	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	1240	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-7

Report#/Lab ID#: 126586
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	68.5	65-115	---
Toluene-d8	8260b	83	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126586 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-7

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 TNRCC-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
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.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126587 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-8
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:25

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)	990	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	494	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	49.9	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	262	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	1990	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	539	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	1470	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-8

Report#/Lab ID#: 126587
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	93.8	50-150	---
p-Terphenyl	8015 mod.	131	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	77.4	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126588 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-9
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	454	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	469	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	81.6	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	323	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	2540	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	681	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	1750	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-9

Report#/Lab ID#: 126588
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	97.6	65-115	---
Toluene-d8	8260b	84	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126588 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-9

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 TNRCC-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
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.

Notes:

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Client: Cypress Engineering
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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126589 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-10
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:45

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)	444	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	366	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	34.8	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	215	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	1550	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	439	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	956	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-10

Report#/Lab ID#: 126589
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	100	65-115	---
Toluene-d8	8260b	79.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126589 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-10

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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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
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.

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126590 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-11
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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)	855	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	301	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.2	92	97.1	91.9
Ethylbenzene	585	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	3600	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	1280	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	1140	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-11

Report#/Lab ID#: 126590
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	133	50-150	---
p-Terphenyl	8015 mod.	118	50-150	---
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	82.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126590 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-11

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.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126591 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: PB-12
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 09:35

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)	1170	mg/Kg	50	<50	03/12/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	798	mg/Kg	50	<50	03/12/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	423	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	1140	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	6410	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	2280	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	4460	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: PB-12

Report#/Lab ID#: 126591
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	101	65-115	---
Toluene-d8	8260b	68.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126591 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: PB-12

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 TNRCC-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
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.

Notes:

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126592 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: NW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:40

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-1

Report#/Lab ID#: 126592
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	63.8	50-150	---
1,2-Dichloroethane-d4	8260b	93	65-115	---
Toluene-d8	8260b	87.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126592 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: NW-1

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 TNRCC-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.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126593 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: NW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:42

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-2

Report#/Lab ID#: 126593
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	106	50-150	---
p-Terphenyl	8015 mod.	77	50-150	---
1,2-Dichloroethane-d4	8260b	92.6	65-115	---
Toluene-d8	8260b	86.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126593 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: NW-2

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126594 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: NW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:45

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)	26.7	mg/Kg	5	<5	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	9.33	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: NW-3

Report#/Lab ID#: 126594
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	117	50-150	---
p-Terphenyl	8015 mod.	107	50-150	---
1,2-Dichloroethane-d4	8260b	88.6	65-115	---
Toluene-d8	8260b	83.8	50-120	---

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

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Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126595 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: EW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:48

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-1

Report#/Lab ID#: 126595
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	104	50-150	---
p-Terphenyl	8015 mod.	82.9	50-150	---
1,2-Dichloroethane-d4	8260b	94.4	65-115	---
Toluene-d8	8260b	86.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126595 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: EW-1

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126596 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: EW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:50

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Richard Laster

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4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-2

Report#/Lab ID#: 126596
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	113	50-150	---
p-Terphenyl	8015 mod.	85	50-150	---
1,2-Dichloroethane-d4	8260b	90.3	65-115	---
Toluene-d8	8260b	89.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126596 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: EW-2

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 TNRCC-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.

Notes:

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126597 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: EW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:53

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	J	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: EW-3

Report#/Lab ID#: 126597
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	102	50-150	---
1,2-Dichloroethane-d4	8260b	95.6	65-115	---
Toluene-d8	8260b	89.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126597 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: EW-3

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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Comments pertaining to Data Qualifiers and QC data:

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

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Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126598 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: SW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:55

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	03/11/02	8015 mod.	---	0.7	120.5	119.8	106.7
TPH by GC (as diesel-ext)	---	---	---	---	03/11/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.2	124.7	121.6	119.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-1

Report#/Lab ID#: 126598
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	92.7	50-150	---
1,2-Dichloroethane-d4	8260b	90.2	65-115	---
Toluene-d8	8260b	90.3	50-120	---

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

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Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126599 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: SW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 10:58

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)	101	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	26.7	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	33.7	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	J	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-2

Report#/Lab ID#: 126599
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.	122	50-150	---
1,2-Dichloroethane-d4	8260b	99	65-115	---
Toluene-d8	8260b	84.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126599 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SW-2

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126600 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: SW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 11:05

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	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/12/02	8015 mod.	J	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SW-3

Report#/Lab ID#: 126600
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	116	50-150	---
p-Terphenyl	8015 mod.	106	50-150	---
1,2-Dichloroethane-d4	8260b	93.6	65-115	---
Toluene-d8	8260b	92.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126600 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SW-3

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126601 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: WW-1
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 11:08

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	03/07/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/07/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Richard Laster

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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.

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4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-1

Report#/Lab ID#: 126601
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	108	50-150	---
p-Terphenyl	8015 mod.	89.3	50-150	---
1,2-Dichloroethane-d4	8260b	94.9	65-115	---
Toluene-d8	8260b	92.6	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126602 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: WW-2
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **Time:** 11:10

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	03/08/02	8015 mod.	---	19	76.2	121.1	84.3
TPH by GC (as diesel-ext)	---	---	---	---	03/07/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/08/02	8015 mod.	---	17.2	89.2	111.8	97.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-2

Report#/Lab ID#: 126602
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	84	50-150	---
1,2-Dichloroethane-d4	8260b	89.3	65-115	---
Toluene-d8	8260b	82.7	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126603 **Report Date:** 03/13/02
Project ID: Roswell Pit #1
Sample Name: WW-3
Sample Matrix: soil
Date Received: 03/07/2002 **Time:** 10:54
Date Sampled: 03/06/2002 **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	03/12/02	8015 mod.	J	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/12/02	8015 mod.	J	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: WW-3

Report#/Lab ID#: 126603
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	110	50-150	---
p-Terphenyl	8015 mod.	90.7	50-150	---
1,2-Dichloroethane-d4	8260b	101	65-115	---
Toluene-d8	8260b	90.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126603 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: WW-3

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 TNRCC-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.
TPH by GC (as gasoline)	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

1753

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Bill to (if different):
Company Name: ENRON PRICING
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City: State: Zip:
ATTN:
Phone: Fax:

Rush Status (must be confirmed with lab mgr.): ~~RUSH~~ STANDARD
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TH 8015 MOD (PRO-GRO)							Comments
PB-1	3-6-02	0850	1	✓			126580	✓	✓							
PB-2		0855	1	✓			126581	✓	✓							
PB-3		0900	1	✓			126582	✓	✓							
PB-4		0915	1	✓			126583	✓	✓							
PB-5		0910	1	✓			126584	✓	✓							
PB-6		0905	1	✓			126585	✓	✓							
PB-7		0920	1	✓			126586	✓	✓							
PB-8		0925	1	✓			126587	✓	✓							
PB-9		0930	1	✓			126588	✓	✓							
PB-10	0945	~~0945~~	1	✓			126589	✓	✓							

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS END	3-6-02	1700	Melanie Humphrey	ASI	3/7/02	10:54

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

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

Rush Status (must be confirmed with lab mgr.): STANDARD
Project Name/PO#: ROSWELL AI #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 Mod. (CHC-GRO)							Comments
PB-11	3-6-02	0940	1	✓			126590	✓	✓							
PB-12		0935	1	✓			126591	✓	✓							
NW-1		1040	1	✓			126592	✓	✓							
NW-2		1042	1	✓			126593	✓	✓							
NW-3		1045	1	✓			126594	✓	✓							
EW-1		1048	1	✓			126595	✓	✓							
EW-2		1050	1	✓			126596	✓	✓							
EW-3		1053	1	✓			126597	✓	✓							
SW-1		1055	1	✓			126598	✓	✓							
SW-2		1058	1	✓			126599	✓	✓							

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG.	3-6-02	1700	Melanie Humphrey	ASI	3/7/02	10:54

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

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD. (NR-GRO)								Comments
SW-3	3-6-02	1105	1	✓			126600	✓	✓								
WW-1		1108	1	✓			126601	✓	✓								
WW-2		1110	1	✓			126602	✓	✓								
WW-3		1115	1	✓			126603	✓	✓								

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Temp: 0.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-6-02	1700	Melanie Humphrey	ASI	3/7/02	10:54

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126626 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-1
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	650	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	144	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	109	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	782	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	314	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	112	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-1

Report#/Lab ID#: 126626
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	139	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	92	65-115	---
Toluene-d8	8260b	93.9	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126627 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-2
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:05

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)	536	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	105	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	88	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	635	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	256	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	86	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-2

Report#/Lab ID#: 126627
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	140	50-150	---
p-Terphenyl	8015 mod.	139	50-150	---
1,2-Dichloroethane-d4	8260b	72.6	65-115	---
Toluene-d8	8260b	85.7	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126628 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-3
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:10

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)	188	mg/Kg	5	<5	03/11/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	96.2	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	93.2	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	665	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	275	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	86.7	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-3

Report#/Lab ID#: 126628
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	126	50-150	---
1,2-Dichloroethane-d4	8260b	85.7	65-115	---
Toluene-d8	8260b	96.2	50-120	---

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

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Report#/Lab ID#: 126629 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-4
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	472	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	93.6	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	89.3	µg/Kg	20	<20	03/08/02	8260b	---	2.9	91.4	104	101.9
m,p-Xylenes	683	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	294	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	72.2	µg/Kg	20	<20	03/08/02	8260b	---	4.5	74.6	81.8	83.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-4

Report#/Lab ID#: 126629
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	134	50-150	---
p-Terphenyl	8015 mod.	116	50-150	---
1,2-Dichloroethane-d4	8260b	85.7	65-115	---
Toluene-d8	8260b	95.2	50-120	---

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

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Report#/Lab ID#: 126630 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-5
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:20

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)	210	mg/Kg	5	<5	03/11/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	71.6	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	85.8	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	676	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	279	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	87.9	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-5

Report#/Lab ID#: 126630
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	121	50-150	---
p-Terphenyl	8015 mod.	132	50-150	---
1,2-Dichloroethane-d4	8260b	91.7	65-115	---
Toluene-d8	8260b	96.5	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126631 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-6
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:25

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)	410	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	89.5	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	62	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	508	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	218	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	80	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-6

Report#/Lab ID#: 126631
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	126	50-150	---
p-Terphenyl	8015 mod.	136	50-150	---
1,2-Dichloroethane-d4	8260b	89.8	65-115	---
Toluene-d8	8260b	79.3	50-120	---

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

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Report#/Lab ID#: 126632 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-7
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	655	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	196	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	92.2	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	736	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	309	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	108	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

Richard Laster

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-7

Report#/Lab ID#: 126632
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	70.1	50-150	---
p-Terphenyl	8015 mod.	128	50-150	---
1,2-Dichloroethane-d4	8260b	82	65-115	---
Toluene-d8	8260b	83.6	50-120	---

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

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Report#/Lab ID#: 126633 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-8
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:35

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)	429	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	122	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	116	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	910	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	382	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	137	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-8

Report#/Lab ID#: 126633
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	131	50-150	---
p-Terphenyl	8015 mod.	134	50-150	---
1,2-Dichloroethane-d4	8260b	95.2	65-115	---
Toluene-d8	8260b	91.7	50-120	---

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

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Report#/Lab ID#: 126634 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-9
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:45

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)	284	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	96.1	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	97.6	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	778	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	318	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	127	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-9

Report#/Lab ID#: 126634
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	127	50-150	---
p-Terphenyl	8015 mod.	132	50-150	---
1,2-Dichloroethane-d4	8260b	89.6	65-115	---
Toluene-d8	8260b	81.7	50-120	---

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

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126635 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-10
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:45

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)	502	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	152	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	88.4	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	684	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	269	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	125	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-10

Report#/Lab ID#: 126635
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	146	50-150	---
p-Terphenyl	8015 mod.	142	50-150	---
1,2-Dichloroethane-d4	8260b	98	65-115	---
Toluene-d8	8260b	84.2	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126636 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-11
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:50

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)	276	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	66.9	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	71.9	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	554	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	207	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	82.5	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-11

Report#/Lab ID#: 126636
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	133	50-150	---
p-Terphenyl	8015 mod.	121	50-150	---
1,2-Dichloroethane-d4	8260b	91.5	65-115	---
Toluene-d8	8260b	92.3	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126637 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-12
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 10:55

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)	610	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	120	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	101	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	744	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	271	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	119	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-12

Report#/Lab ID#: 126637
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	125	50-150	---
p-Terphenyl	8015 mod.	141	50-150	---
1,2-Dichloroethane-d4	8260b	78.9	65-115	---
Toluene-d8	8260b	79.8	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126638 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-13
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	108	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	38.6	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	26.4	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	209	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	89.4	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	21.8	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-13

Report#/Lab ID#: 126638
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	144	50-150	---
p-Terphenyl	8015 mod.	134	50-150	---
1,2-Dichloroethane-d4	8260b	88.4	65-115	---
Toluene-d8	8260b	93.6	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126639 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-14
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 11:05

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)	146	mg/Kg	5	<5	03/11/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	27.3	mg/Kg	5	<5	03/11/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	29.7	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	233	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	97.6	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	27.7	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-14

Report#/Lab ID#: 126639
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	88.5	50-150	---
p-Terphenyl	8015 mod.	139	50-150	---
1,2-Dichloroethane-d4	8260b	83.1	65-115	---
Toluene-d8	8260b	90	50-120	---

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

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Client: Cypress Engineering
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126640 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-15
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 11:10

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)	68.8	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	20.4	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	<20	µg/Kg	20	<20	03/09/02	8260b	J	0.8	90.7	96.3	98.1
m,p-Xylenes	122	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	51.6	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	<20	µg/Kg	20	<20	03/09/02	8260b	J	12.7	90.7	104.7	102.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-15

Report#/Lab ID#: 126640
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	133	50-150	---
p-Terphenyl	8015 mod.	132	50-150	---
1,2-Dichloroethane-d4	8260b	81	65-115	---
Toluene-d8	8260b	82.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126640 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPC-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.
- ☐ 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 TNRCC-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.
Toluene	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126641 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-16
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	81.8	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	19.2	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	1.5	78.1	83.1	83.2
Ethylbenzene	<20	µg/Kg	20	<20	03/08/02	8260b	J	2.9	91.4	104	101.9
m,p-Xylenes	118	µg/Kg	20	<20	03/08/02	8260b	---	2.4	92.2	105.2	103.3
o-Xylene	49.9	µg/Kg	20	<20	03/08/02	8260b	---	2.4	90.1	99.7	99
Toluene	<20	µg/Kg	20	<20	03/08/02	8260b	J	4.5	74.6	81.8	83.2

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-16

Report#/Lab ID#: 126641
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	136	50-150	---
1,2-Dichloroethane-d4	8260b	75.9	65-115	---
Toluene-d8	8260b	85.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126641 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPC-16

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126642 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-17
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 11:20

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)	319	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	101	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/08/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/08/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	88.4	µg/Kg	20	<20	03/08/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	660	µg/Kg	20	<20	03/08/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	257	µg/Kg	20	<20	03/08/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	96.7	µg/Kg	20	<20	03/08/02	8260b	---	12.7	90.7	104.7	102.1

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Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-17

Report#/Lab ID#: 126642
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	119	50-150	---
p-Terphenyl	8015 mod.	118	50-150	---
1,2-Dichloroethane-d4	8260b	82.3	65-115	---
Toluene-d8	8260b	85.4	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126643 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-18
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 11:25

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)	333	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	87.6	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	112	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	836	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	319	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	147	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-18

Report#/Lab ID#: 126643
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	137	50-150	---
p-Terphenyl	8015 mod.	121	50-150	---
1,2-Dichloroethane-d4	8260b	82.6	65-115	---
Toluene-d8	8260b	89.7	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126644 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-19
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	159	mg/Kg	5	<5	03/08/02	8015 mod.	---	2.6	126	98.9	126.6
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	45.8	mg/Kg	5	<5	03/08/02	8015 mod.	---	4.7	112.6	90.2	125.8
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	30.4	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	247	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	111	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	25.9	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-19

Report#/Lab ID#: 126644
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	126	50-150	---
p-Terphenyl	8015 mod.	144	50-150	---
1,2-Dichloroethane-d4	8260b	72.9	65-115	---
Toluene-d8	8260b	78.2	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126645 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-20
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	335	mg/Kg	5	<5	03/08/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	103	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	65.8	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	545	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	238	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	78	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-20

Report#/Lab ID#: 126645
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	131	50-150	---
p-Terphenyl	8015 mod.	116	50-150	---
1,2-Dichloroethane-d4	8260b	82.4	65-115	---
Toluene-d8	8260b	87.3	50-120	---

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

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126646 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-21
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	266	mg/Kg	5	<5	03/08/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	72.4	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	122	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	902	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	349	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	158	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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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.

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-21

Report#/Lab ID#: 126646
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	120	50-150	---
p-Terphenyl	8015 mod.	136	50-150	---
1,2-Dichloroethane-d4	8260b	87.9	65-115	---
Toluene-d8	8260b	87.9	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126647 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-22
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	525	mg/Kg	5	<5	03/08/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	137	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	J	10.6	83.6	96.2	94
Ethylbenzene	185	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	1290	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	478	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	325	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-22

Report#/Lab ID#: 126647
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	140	50-150	---
p-Terphenyl	8015 mod.	118	50-150	---
1,2-Dichloroethane-d4	8260b	94.8	65-115	---
Toluene-d8	8260b	89	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126647 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPC-22

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 TNRCC-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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126648 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-23
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **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)	301	mg/Kg	5	<5	03/08/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	78.2	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	---	10.6	83.6	96.2	94
Ethylbenzene	123	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	917	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	349	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	163	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-23

Report#/Lab ID#: 126648
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	129	50-150	---
p-Terphenyl	8015 mod.	136	50-150	---
1,2-Dichloroethane-d4	8260b	95.6	65-115	---
Toluene-d8	8260b	88	50-120	---

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

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126649 **Report Date:** 03/11/02
Project ID: Roswell Pit #1
Sample Name: SPC-24
Sample Matrix: soil
Date Received: 03/08/2002 **Time:** 11:17
Date Sampled: 03/07/2002 **Time:** 11:55

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)	149	mg/Kg	5	<5	03/08/02	8015 mod.	---	16.4	86.5	107.9	96.5
TPH by GC (as diesel-ext)	---	---	---	---	03/08/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	57.1	mg/Kg	5	<5	03/08/02	8015 mod.	---	9.7	94.7	101.1	101.1
Volatile organics-8260b/BTEX	---		---		03/09/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/09/02	8260b	J	10.6	83.6	96.2	94
Ethylbenzene	203	µg/Kg	20	<20	03/09/02	8260b	---	0.8	90.7	96.3	98.1
m,p-Xylenes	1350	µg/Kg	20	<20	03/09/02	8260b	---	0.4	90.7	97.8	98.5
o-Xylene	493	µg/Kg	20	<20	03/09/02	8260b	---	0.7	85.1	93.2	94.1
Toluene	413	µg/Kg	20	<20	03/09/02	8260b	---	12.7	90.7	104.7	102.1

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Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #1
Sample Name: SPC-24

Report#/Lab ID#: 126649
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	124	50-150	---
p-Terphenyl	8015 mod.	140	50-150	---
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	94.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126649 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #1
Sample Name: SPC-24

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

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM ECN 4534A.
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867.

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

Rush Status (must be confirmed with lab mgr.): Rush.
Project Name/PO#: ROSWELL AIR 1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B	TPH 8015 MOD. (DRO-GRO)							Comments
SPC-1	3-7-02	1000	1	✓			126626	✓	✓							
SPC-2		1005	1	✓			126627	✓	✓							
SPC-3		1010 ~~100~~	1	✓			126628	✓	✓							
SPC-4		1015	1	✓			126629	✓	✓							Rush.
SPC-5		1020	1	✓			126630	✓	✓							
SPC-6		1025	1	✓			126631	✓	✓							
SPC-7		1030	1	✓			126632	✓	✓							
SPC-8		1035	1	✓			126633	✓	✓							
SPC-9		1045	1	✓			126634	✓	✓							
SPC-10		1045	1	✓			126635	✓	✓							

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
GFRIEND	CYPRESS	3-7-02	1700	Melanie Humphry	ASI	3/8/02	11:17

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

CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
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Address 1400 SMITH ROOM ECN 4534A
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): RUSH.
Project Name/PO#: ROSWELL KIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 9015 MOD. (DRO-GRO)							Comments
SPC-11	3-7-02	1050	1	✓			126636	✓	✓							
SPC-12		1055	1	✓			126637	✓	✓							
SPC-13		1100	1	✓			126638	✓	✓							
SPC-14		1105	1	✓			126639	✓	✓							
SPC-15		1110	1	✓			126640	✓	✓							RUSH
SPC-16		1115	1	✓			126641	✓	✓							
SPC-17		1120	1	✓			126642	✓	✓							
SPC-18		1125	1	✓			126643	✓	✓							
SPC-19.		1130	1	✓			126644	✓	✓							
SPC-20		1135	1	✓			126645	✓	✓							

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-7-02	1200	Melanie Humphrey	ASI	3/8/02	11:12

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

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City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): Rush.
Project Name/PO#: ROSWELL PIT #1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 (DRO-GRO)							Comments
~~SC~~ SPC-21	3-7-02	1140	1	✓			126646	✓	✓							
SPC-22		1145	1	✓			126647	✓	✓							
SPC-23		1150	1	✓			126648	✓	✓							
SPC-24		1155	1	✓			126649	✓	✓							
																Rush

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-7-02	1700	Melanie Humphrey	ASI	3/8/02	11:17

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

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126737 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-1
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:00

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)	60.4	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	54.4	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	112	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	30.5	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-1

Report#/Lab ID#: 126737
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	97.3	50-150	---
p-Terphenyl	8015 mod.	89.2	50-150	---
1,2-Dichloroethane-d4	8260b	91.6	65-115	---
Toluene-d8	8260b	86.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126737 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPT-1

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 TNRCC-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:

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126738 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-2
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:05

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)	31.2	mg/Kg	5	<5	03/13/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	28.7	mg/Kg	5	<5	03/13/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	59.2	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	J	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-2

Report#/Lab ID#: 126738
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	110	50-150	---
p-Terphenyl	8015 mod.	112	50-150	---
1,2-Dichloroethane-d4	8260b	78	65-115	---
Toluene-d8	8260b	74.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126738 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPT-2

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

A J flag data qualifier indicates (as required under TNRCC-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
o-Xylene	J	See J-flag discussion above.

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126739 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-3
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:10

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)	37.5	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	15	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	92	97.1	91.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.4	91.9	99.5	95
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	J	2.3	94.3	103.6	96.9
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.1	88.1	96.2	92
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.2	99.8	109.1	100

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-3

Report#/Lab ID#: 126739
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	68.8	50-150	---
p-Terphenyl	8015 mod.	122	50-150	---
1,2-Dichloroethane-d4	8260b	85	65-115	---
Toluene-d8	8260b	79.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126739 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPT-3

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126740 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-4
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:15

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)	14.9	mg/Kg	5	<5	03/13/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	6.82	mg/Kg	5	<5	03/13/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-4

Report#/Lab ID#: 126740
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	82.4	50-150	---
p-Terphenyl	8015 mod.	79.5	50-150	---
1,2-Dichloroethane-d4	8260b	75	65-115	---
Toluene-d8	8260b	85.6	50-120	---

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

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Client: Cypress Engineering
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126741 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-5
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:20

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)	18.9	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	9.04	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/13/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.1	80.8	90	91.7
Ethylbenzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.2	101.2	107.4	108.5
m,p-Xylenes	<20	µg/Kg	20	<20	03/13/02	8260b	---	3	113.4	120	122.4
o-Xylene	<20	µg/Kg	20	<20	03/13/02	8260b	---	2.5	106.2	113.1	114.4
Toluene	<20	µg/Kg	20	<20	03/13/02	8260b	---	1.6	93.9	102.7	106.8

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Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-5

Report#/Lab ID#: 126741
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	104	50-150	---
p-Terphenyl	8015 mod.	124	50-150	---
1,2-Dichloroethane-d4	8260b	100	65-115	---
Toluene-d8	8260b	81.4	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126742 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-6
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:25

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)	10.4	mg/Kg	5	<5	03/13/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	11.2	mg/Kg	5	<5	03/13/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	J	0	118	119.5	119.3
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-6

Report#/Lab ID#: 126742
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	53.4	50-150	---
p-Terphenyl	8015 mod.	51.6	50-150	---
1,2-Dichloroethane-d4	8260b	84.6	65-115	---
Toluene-d8	8260b	76.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126742 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPT-6

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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126743 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPT-7
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:30

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)	21	mg/Kg	5	<5	03/13/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	10.3	mg/Kg	5	<5	03/13/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	<20	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPT-7

Report#/Lab ID#: 126743
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	120	50-150	---
p-Terphenyl	8015 mod.	80.3	50-150	---
1,2-Dichloroethane-d4	8260b	84.9	65-115	---
Toluene-d8	8260b	79.4	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126744 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPS-12 Retest
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/09/2002 **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)	532	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	126	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	47.2	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	469	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	189	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	34.3	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPS-12 Retest

Report#/Lab ID#: 126744
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	135	50-150	---
p-Terphenyl	8015 mod.	94	50-150	---
1,2-Dichloroethane-d4	8260b	81.8	65-115	---
Toluene-d8	8260b	79	50-120	---

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

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Client: Cypress Engineering
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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126745 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPS-14 Retest
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/09/2002 **Time:** 10:50

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)	685	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	150	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	75.6	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	696	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	290	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	54.8	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPS-14 Retest

Report#/Lab ID#: 126745
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	149	50-150	---
p-Terphenyl	8015 mod.	108	50-150	---
1,2-Dichloroethane-d4	8260b	66.6	65-115	---
Toluene-d8	8260b	68.4	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126746 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPS-19 Retest
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/09/2002 **Time:** 13:07

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)	957	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	297	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	167	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	1480	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	614	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	120	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPS-19 Retest

Report#/Lab ID#: 126746
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	71.4	50-150	---
p-Terphenyl	8015 mod.	131	50-150	---
1,2-Dichloroethane-d4	8260b	79.3	65-115	---
Toluene-d8	8260b	74.7	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126747 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-1
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:35

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)	290	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	162	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	113	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	<20	µg/Kg	20	<20	03/12/02	8260b	J	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-1

Report#/Lab ID#: 126747
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	126	50-150	---
p-Terphenyl	8015 mod.	148	50-150	---
1,2-Dichloroethane-d4	8260b	76.3	65-115	---
Toluene-d8	8260b	80.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126747 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-1

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 TNRCC-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.
o-Xylene	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126748 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-2
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:40

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)	343	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	316	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	29.3	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	284	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	37.3	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-2

Report#/Lab ID#: 126748
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	101	50-150	---
p-Terphenyl	8015 mod.	149	50-150	---
1,2-Dichloroethane-d4	8260b	99.1	65-115	---
Toluene-d8	8260b	90.2	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126749 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-3
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:45

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)	215	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	134	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	22	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	212	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	28.8	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-3

Report#/Lab ID#: 126749
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	87.3	50-150	---
p-Terphenyl	8015 mod.	110	50-150	---
1,2-Dichloroethane-d4	8260b	91.8	65-115	---
Toluene-d8	8260b	75.9	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126750 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-4
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:50

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)	61.7	mg/Kg	5	<5	03/13/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	68.5	mg/Kg	5	<5	03/13/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	27.4	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	265	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	34.4	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-4

Report#/Lab ID#: 126750
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	52.7	50-150	---
p-Terphenyl	8015 mod.	62.7	50-150	---
1,2-Dichloroethane-d4	8260b	93.8	65-115	---
Toluene-d8	8260b	76.1	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126751 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-5
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 14:55

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)	186	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	264	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	46.7	µg/Kg	20	<20	03/12/02	8260b	---	0.1	104.8	111.2	105.2
m,p-Xylenes	389	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	227	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	J	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-5

Report#/Lab ID#: 126751
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	88.9	50-150	---
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	96.3	65-115	---
Toluene-d8	8260b	80.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126751 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-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 TNRCC-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:

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Report#/Lab ID#: 126752 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-6
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:00

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)	286	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	203	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	166	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	39.9	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-6

Report#/Lab ID#: 126752
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	75.2	50-150	---
p-Terphenyl	8015 mod.	148	50-150	---
1,2-Dichloroethane-d4	8260b	83.6	65-115	---
Toluene-d8	8260b	74.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126752 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-6

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
Ethylbenzene	J	See J-flag discussion above.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126753 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-7
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:05

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)	169	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	117	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	156	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	38.5	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-7

Report#/Lab ID#: 126753
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	91.2	50-150	---
p-Terphenyl	8015 mod.	106	50-150	---
1,2-Dichloroethane-d4	8260b	91.3	65-115	---
Toluene-d8	8260b	74.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126753 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-7

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.
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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-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:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126754 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-8
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:10

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)	186	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	121	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	122	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	47.7	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-8

Report#/Lab ID#: 126754
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	118	50-150	---
p-Terphenyl	8015 mod.	134	50-150	---
1,2-Dichloroethane-d4	8260b	84.6	65-115	---
Toluene-d8	8260b	80.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126754 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-8

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126755 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-9
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:20

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)	89	mg/Kg	5	<5	03/12/02	8015 mod.	---	5	93.4	118.2	94.9
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	67.5	mg/Kg	5	<5	03/12/02	8015 mod.	---	5.3	95.3	118.7	96.4
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	128	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	55.9	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-9

Report#/Lab ID#: 126755
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	88.6	50-150	---
p-Terphenyl	8015 mod.	95.2	50-150	---
1,2-Dichloroethane-d4	8260b	96.2	65-115	---
Toluene-d8	8260b	87.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126755 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-9

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126756 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-10
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:25

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)	86.4	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	74.1	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	118	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	31.2	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-10

Report#/Lab ID#: 126756
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	141	50-150	---
p-Terphenyl	8015 mod.	127	50-150	---
1,2-Dichloroethane-d4	8260b	96.5	65-115	---
Toluene-d8	8260b	79.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126756 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-10

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126757 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-11
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:30

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)	139	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	106	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	106	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	31.6	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-11

Report#/Lab ID#: 126757
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	140	50-150	---
p-Terphenyl	8015 mod.	138	50-150	---
1,2-Dichloroethane-d4	8260b	91.8	65-115	---
Toluene-d8	8260b	80.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126757 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-11

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126758 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-12
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:35

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)	211	mg/Kg	5	<5	03/13/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	129	mg/Kg	5	<5	03/13/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/12/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/12/02	8260b	---	3.6	80	85.7	82.9
Ethylbenzene	<20	µg/Kg	20	<20	03/12/02	8260b	J	0.1	104.8	111.2	105.2
m,p-Xylenes	187	µg/Kg	20	<20	03/12/02	8260b	---	0	118	119.5	119.3
o-Xylene	32.8	µg/Kg	20	<20	03/12/02	8260b	---	1.1	105.7	113	106.9
Toluene	<20	µg/Kg	20	<20	03/12/02	8260b	---	2.2	92.8	99.6	96.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-12

Report#/Lab ID#: 126758
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	116	50-150	---
p-Terphenyl	8015 mod.	137	50-150	---
1,2-Dichloroethane-d4	8260b	92.2	65-115	---
Toluene-d8	8260b	79.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126758 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit #2
Sample Name: SPNE-12

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 TNRCC-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:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126759 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-13
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:40

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)	116	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	89.1	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/13/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.1	80.8	90	91.7
Ethylbenzene	20.8	µg/Kg	20	<20	03/13/02	8260b	---	3.2	101.2	107.4	108.5
m,p-Xylenes	173	µg/Kg	20	<20	03/13/02	8260b	---	3	113.4	120	122.4
o-Xylene	40.7	µg/Kg	20	<20	03/13/02	8260b	---	2.5	106.2	113.1	114.4
Toluene	<20	µg/Kg	20	<20	03/13/02	8260b	---	1.6	93.9	102.7	106.8

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-13

Report#/Lab ID#: 126759
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	146	50-150	---
p-Terphenyl	8015 mod.	97.6	50-150	---
1,2-Dichloroethane-d4	8260b	87.1	65-115	---
Toluene-d8	8260b	74.2	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126760 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-14
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:45

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)	221	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	277	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/13/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.1	80.8	90	91.7
Ethylbenzene	21.2	µg/Kg	20	<20	03/13/02	8260b	---	3.2	101.2	107.4	108.5
m,p-Xylenes	208	µg/Kg	20	<20	03/13/02	8260b	---	3	113.4	120	122.4
o-Xylene	992	µg/Kg	20	<20	03/13/02	8260b	---	2.5	106.2	113.1	114.4
Toluene	71.1	µg/Kg	20	<20	03/13/02	8260b	---	1.6	93.9	102.7	106.8

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-14

Report#/Lab ID#: 126760
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	68.8	50-150	---
p-Terphenyl	8015 mod.	149	50-150	---
1,2-Dichloroethane-d4	8260b	82.9	65-115	---
Toluene-d8	8260b	78.7	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126761 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-15
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:50

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)	139	mg/Kg	5	<5	03/12/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	121	mg/Kg	5	<5	03/12/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/13/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.1	80.8	90	91.7
Ethylbenzene	34.5	µg/Kg	20	<20	03/13/02	8260b	---	3.2	101.2	107.4	108.5
m,p-Xylenes	286	µg/Kg	20	<20	03/13/02	8260b	---	3	113.4	120	122.4
o-Xylene	524	µg/Kg	20	<20	03/13/02	8260b	---	2.5	106.2	113.1	114.4
Toluene	100	µg/Kg	20	<20	03/13/02	8260b	---	1.6	93.9	102.7	106.8

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Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-15

Report#/Lab ID#: 126761
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	140	50-150	---
p-Terphenyl	8015 mod.	134	50-150	---
1,2-Dichloroethane-d4	8260b	96.9	65-115	---
Toluene-d8	8260b	78	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126762 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-16
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 15:55

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)	127	mg/Kg	5	<5	03/13/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	150	mg/Kg	5	<5	03/13/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/13/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.1	80.8	90	91.7
Ethylbenzene	28.1	µg/Kg	20	<20	03/13/02	8260b	---	3.2	101.2	107.4	108.5
m,p-Xylenes	242	µg/Kg	20	<20	03/13/02	8260b	---	3	113.4	120	122.4
o-Xylene	1020	µg/Kg	20	<20	03/13/02	8260b	---	2.5	106.2	113.1	114.4
Toluene	207	µg/Kg	20	<20	03/13/02	8260b	---	1.6	93.9	102.7	106.8

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-16

Report#/Lab ID#: 126762
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	112	50-150	---
p-Terphenyl	8015 mod.	94.6	50-150	---
1,2-Dichloroethane-d4	8260b	97.6	65-115	---
Toluene-d8	8260b	81.1	50-120	---

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

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126763 **Report Date:** 03/13/02
Project ID: Roswell Pit #2
Sample Name: SPNE-17
Sample Matrix: soil
Date Received: 03/12/2002 **Time:** 10:36
Date Sampled: 03/11/2002 **Time:** 16:00

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)	114	mg/Kg	5	<5	03/13/02	8015 mod.	---	1.3	104	110.2	99.5
TPH by GC (as diesel-ext)	---	---	---	---	03/12/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	124	mg/Kg	5	<5	03/13/02	8015 mod.	---	2.7	98.7	111.5	100.5
Volatile organics-8260b/BTEX	---		---		03/13/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/13/02	8260b	---	3.1	80.8	90	91.7
Ethylbenzene	23.1	µg/Kg	20	<20	03/13/02	8260b	---	3.2	101.2	107.4	108.5
m,p-Xylenes	203	µg/Kg	20	<20	03/13/02	8260b	---	3	113.4	120	122.4
o-Xylene	528	µg/Kg	20	<20	03/13/02	8260b	---	2.5	106.2	113.1	114.4
Toluene	85.4	µg/Kg	20	<20	03/13/02	8260b	---	1.6	93.9	102.7	106.8

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit #2
Sample Name: SPNE-17

Report#/Lab ID#: 126763
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	142	50-150	---
p-Terphenyl	8015 mod.	101	50-150	---
1,2-Dichloroethane-d4	8260b	97.1	65-115	---
Toluene-d8	8260b	81.7	50-120	---

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

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ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.): RUSH
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (DRO-GRO)								Comments
SPT-1	3-11-02	1400	1	✓			126737	✓	✓								
SPT-2		1405	1	✓			126738	✓	✓								
SPT-3		1410	1	✓			126739	✓	✓								
SPT-4		1415	1	✓			126740	✓	✓								
SPT-5		1420	1	✓			126741	✓	✓								
SPT-6		1425	1	✓			126742	✓	✓								
SPT-7		1430	1	✓			126743	✓	✓								
SPS-12 RETEST	3-9-02	1030	1	✓			126744	✓	✓								
SPS-14 RETEST	3-9-02	1050	1	✓			126745	✓	✓								
SPS-18 RETEST	3-9-02	1307	1	✓			126746	✓	✓								

Rush

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G FRIEND	CYPRESS	3-11-02	1700	Melanie Humphrey	ASI	3/12/02	10:36

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

CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name: TW
Address: 1400 SMITH ROOM 4534 A.
City: HOUSTON State: TX Zip: 77002
ATTN: GEORGE ROBINSON
Phone: (713) 345-1537 Fax: (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): RUSH.
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B	TPH 8015 mod (DRO-GRO)								Comments
SPNE - 1	3-11-02	1435	1	✓			126747	✓	✓								
SPNE - 2		1440	1	✓			126748	✓	✓								
SPNE - 3		1445	1	✓			126749	✓	✓								
SPNE - 4		1450	1	✓			126750	✓	✓								
SPNE - 5		1455	1	✓			126751	✓	✓								Rush
SPNE - 6		1500	1	✓			126752	✓	✓								
SPNE - 7		1500	1	✓			126753	✓	✓								
SPNE - 8		1510	1	✓			126754	✓	✓								
SPNE - 9		1520	1	✓			126755	✓	✓								
SPNE - 10		1525	1	✓			126756	✓	✓								

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G FRIEND	CYPRESS ENG.	3-11-02	1700	Melanie Humphrey	ASI	3/12/02	10:36

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CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM 4534 A.
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): RUSH.
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B	TPH 8015 MOD (DRO-GRO)							Comments
SPNE - 11	3-11-02	1530	1	✓			126757	✓	✓							
SPNE - 12		1535	1	✓			126758	✓	✓							
SPNE - 13		1540	1	✓			126759	✓	✓							
SPNE - 14		1545	1	✓			126760	✓	✓							
SPNE - 15		1550	1	✓			126761	✓	✓							RUSH
SPNE - 16		1555	1	✓			126762	✓	✓							
SPNE - 17		1600	1	✓			126763	✓	✓							

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Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-11-02	1700	Melanie Humphrey	ASI	3/12/02	10:36

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

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126851 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-1
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	257	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	196	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	23.6	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	241	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	69.6	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	J	2.5	98.7	102.4	104.3

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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.

ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-1

Report#/Lab ID#: 126851
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	116	50-150	---
p-Terphenyl	8015 mod.	141	50-150	---
1,2-Dichloroethane-d4	8260b	75.2	65-115	---
Toluene-d8	8260b	78.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126851 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-1

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 TNRCC-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:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126852 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-2
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 11:05

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)	77.5	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	69.6	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	113	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	38.3	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-2

Report#/Lab ID#: 126852
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	97.5	50-150	---
p-Terphenyl	8015 mod.	64.6	50-150	---
1,2-Dichloroethane-d4	8260b	77.6	65-115	---
Toluene-d8	8260b	76.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126852 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-2

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

A J flag data qualifier indicates (as required under TNRCC-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:

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126853 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 11:10

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)	56.2	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	49.8	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	125	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	41.7	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-3

Report#/Lab ID#: 126853
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	106	50-150	---
p-Terphenyl	8015 mod.	93.7	50-150	---
1,2-Dichloroethane-d4	8260b	78.9	65-115	---
Toluene-d8	8260b	80.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126853 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-3

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
Ethylbenzene	J	See J-flag discussion above.

Notes:

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126854 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-4
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	97.6	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	78.8	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	175	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	48.2	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-4

Report#/Lab ID#: 126854
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	108	50-150	---
p-Terphenyl	8015 mod.	89.9	50-150	---
1,2-Dichloroethane-d4	8260b	85.7	65-115	---
Toluene-d8	8260b	89.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126854 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-4

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 TNRCC-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:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126855 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-5
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 11:20

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)	73.8	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	63.2	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	134	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	36.7	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-5

Report#/Lab ID#: 126855
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	128	50-150	---
p-Terphenyl	8015 mod.	95.3	50-150	---
1,2-Dichloroethane-d4	8260b	87.3	65-115	---
Toluene-d8	8260b	91.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126855 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126856 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-6
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 11:25

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)	102	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	66.2	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	151	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	48	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-6

Report#/Lab ID#: 126856
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	99.1	50-150	---
p-Terphenyl	8015 mod.	115	50-150	---
1,2-Dichloroethane-d4	8260b	78.5	65-115	---
Toluene-d8	8260b	81.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126856 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-6

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
Ethylbenzene	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
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Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126857 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-7
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	88.9	mg/Kg	5	<5	03/15/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	68.9	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	160	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	52	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-7

Report#/Lab ID#: 126857
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	99.8	50-150	---
p-Terphenyl	8015 mod.	106	50-150	---
1,2-Dichloroethane-d4	8260b	88.5	65-115	---
Toluene-d8	8260b	92.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126857 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-7

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126858 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-8
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	186	mg/Kg	5	<5	03/15/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	84.6	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	130	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	44.4	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-8

Report#/Lab ID#: 126858
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	120	50-150	---
p-Terphenyl	8015 mod.	117	50-150	---
1,2-Dichloroethane-d4	8260b	80	65-115	---
Toluene-d8	8260b	81.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126858 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPC-8

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126859 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-9
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:00

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)	54.8	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	35.3	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	76.1	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	21.2	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-9

Report#/Lab ID#: 126859
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.	134	50-150	---
1,2-Dichloroethane-d4	8260b	86.3	65-115	---
Toluene-d8	8260b	87.6	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126860 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-10
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:05

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)	42.8	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	32.8	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	71.3	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	J	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-10

Report#/Lab ID#: 126860
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	99.8	50-150	---
p-Terphenyl	8015 mod.	121	50-150	---
1,2-Dichloroethane-d4	8260b	80.6	65-115	---
Toluene-d8	8260b	80.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126860 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-10

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.
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- ☐ 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 TNRCC-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
o-Xylene	J	See J-flag discussion above.

Notes:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126861 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-11
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:10

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)	115	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	98.3	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	117	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	41.9	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-11

Report#/Lab ID#: 126861
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	125	50-150	---
p-Terphenyl	8015 mod.	74.7	50-150	---
1,2-Dichloroethane-d4	8260b	80.2	65-115	---
Toluene-d8	8260b	81.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126861 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-11

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126862 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-12
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:15

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)	106	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	74.9	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	128	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	44.4	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-12

Report#/Lab ID#: 126862
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	100	50-150	---
p-Terphenyl	8015 mod.	111	50-150	---
1,2-Dichloroethane-d4	8260b	77.5	65-115	---
Toluene-d8	8260b	81.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126862 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-12

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 TNRCC-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:

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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126863 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-13
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:20

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)	78.9	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	70.2	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	4	93.1	94.4	96.6
m,p-Xylenes	102	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	35.3	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-13

Report#/Lab ID#: 126863
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	128	50-150	---
p-Terphenyl	8015 mod.	128	50-150	---
1,2-Dichloroethane-d4	8260b	80.7	65-115	---
Toluene-d8	8260b	78.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126863 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-13

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126864 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-14
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:25

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)	53.2	mg/Kg	5	<5	03/15/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	109	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	48.4	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	355	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	176	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	J	2.5	98.7	102.4	104.3

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-14

Report#/Lab ID#: 126864
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	75.4	50-150	---
p-Terphenyl	8015 mod.	51.6	50-150	---
1,2-Dichloroethane-d4	8260b	80.3	65-115	---
Toluene-d8	8260b	83.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126864 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-14

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 TNRCC-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:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126865 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-15
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:30

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)	52.3	mg/Kg	5	<5	03/15/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	102	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	46.8	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	349	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	174	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	J	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-15

Report#/Lab ID#: 126865
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	71.9	50-150	---
p-Terphenyl	8015 mod.	64.9	50-150	---
1,2-Dichloroethane-d4	8260b	82.2	65-115	---
Toluene-d8	8260b	84.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126865 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-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.
- ☐ 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 TNRCC-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:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126866 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-16
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:35

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)	40.5	mg/Kg	5	<5	03/15/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	94.3	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	46.3	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	335	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	172	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	J	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-16

Report#/Lab ID#: 126866
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	71.7	50-150	---
p-Terphenyl	8015 mod.	55	50-150	---
1,2-Dichloroethane-d4	8260b	79.7	65-115	---
Toluene-d8	8260b	79.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126866 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-16

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126867 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-17
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:40

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)	5.15	mg/Kg	5	<5	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	5.89	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-17

Report#/Lab ID#: 126867
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	67	50-150	---
p-Terphenyl	8015 mod.	69	50-150	---
1,2-Dichloroethane-d4	8260b	83.2	65-115	---
Toluene-d8	8260b	84.2	50-120	---

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126868 **Report Date:** 03/18/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-18
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:45

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	03/14/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	5.06	mg/Kg	5	<5	03/14/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/15/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/02	8260b	J	3.7	95	96.7	98.1
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	---	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	2.5	98.7	102.4	104.3

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-18

Report#/Lab ID#: 126868
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	58	50-150	---
p-Terphenyl	8015 mod.	67.1	50-150	---
1,2-Dichloroethane-d4	8260b	74.3	65-115	---
Toluene-d8	8260b	75.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126868 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-18

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
m,p-Xylenes	J	See J-flag discussion above.

Notes:

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Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126869 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-19
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 13:50

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)	157	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	147	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260b/BTEX	---		---		03/14/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/14/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	<20	µg/Kg	20	<20	03/14/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/14/02	8260b	J	0.1	107.7	119.2	115.6
o-Xylene	<20	µg/Kg	20	<20	03/14/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/14/02	8260b	---	1	102.1	102.3	99.6

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Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-19

Report#/Lab ID#: 126869
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.	126	50-150	---
1,2-Dichloroethane-d4	8260b	86.4	65-115	---
Toluene-d8	8260b	78.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126869 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-19

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 TNRCC-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
m,p-Xylenes	J	See J-flag discussion above.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126870 **Report Date:** 03/15/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-8
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 12:55

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)	81.6	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	90.6	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260b/BTEX	---		---		03/14/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/14/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	<20	µg/Kg	20	<20	03/14/02	8260b	J	1.1	96.7	107.5	102.9
m,p-Xylenes	90.4	µg/Kg	20	<20	03/14/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	26.5	µg/Kg	20	<20	03/14/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/14/02	8260b	---	1	102.1	102.3	99.6

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Respectfully Submitted,

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-8

Report#/Lab ID#: 126870
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	80	50-150	---
p-Terphenyl	8015 mod.	70.5	50-150	---
1,2-Dichloroethane-d4	8260b	104	65-115	---
Toluene-d8	8260b	86.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126870 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SPT-8

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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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

CHAIN-OF-CUSTODY

ANALYSYS INC.
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Send Reports To:
Company Name: TRANSWESTERN PIPELINE
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City: HOUSTON State: TX Zip: 77002
ATTN: GEORGE ROBINSON
Phone: (713) 345-1537 Fax: (713) 646-7967

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

Rush Status (must be confirmed with lab mgr.): RUSH
Project Name/PO#: ROSWELL AT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX + 8260 B	TPH 8015 MOD (DRO-GRO)							Comments
PIT 2 SPC-1	3-12-02	1100	1	✓			126851	✓	✓							
PIT 2 SPC-2		1105	1	✓			126852	✓	✓							
PIT 2 SPC-3		1110	1	✓			126853	✓	✓							
PIT 2 SPC-4		1115	1	✓			126854	✓	✓							
PIT 2 SPC-5		1120	1	✓			126855	✓	✓							
PIT 2 SPC-6		1125	1	✓			126856	✓	✓							
PIT 2 SPC-7		1130	1	✓			126857	✓	✓							
PIT 2 SPC-8		1135	1	✓			126858	✓	✓							
PIT 2 SPT-9		1300	1	✓			126859	✓	✓							
PIT 2 SPT-10		1305	1	✓			126860	✓	✓							

Right

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

TEMP: 0.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG.	3-12-02	1700	Melanie Humphrey	ASI	3/14/02	10:28

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

CHAIN-OF-CUSTODY

Send Reports To:
Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM ECP 4534A
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ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7967

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

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Rush Status (must be confirmed with lab mgr.): RUSH
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B	TPH 8015 MCN (GRO-GRC)							Comments
PIT 2 SPT -11	3-12-02	1310	1	✓			126861	✓	✓							
PIT 2 SPT -12.		1315	1	✓			126862	✓	✓							
PIT 2 SPT -13		1320	1	✓			126863	✓	✓							
PIT 2 SPT -14		1325	1	✓			126864	✓	✓							
PIT 2 SPT -15		1330	1	✓			126865	✓	✓							
PIT 2 SPT -16		1335	1	✓			126866	✓	✓							
PIT 2 SPT -17		1340	1	✓			126867	✓	✓							
PIT 2 SPT -18		1345	1	✓			126868	✓	✓							
PIT 2 SPT -19.		1350.	1	✓			126869	✓	✓							
PIT 2 SPT - 8		1255	1	✓			126870	✓	✓							

Rush

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TEMP: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG.	3-12-02	1700	Melanie Humphrey	ASI	3/14/02	10:28

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126871 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-1
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	13.7	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	6.46	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	J	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	13	125.2	104.7	108.9
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	J	5.6	102.2	102.9	108

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-1

Report#/Lab ID#: 126871
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.2	107.3	103	105.5
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.1	97.6	93.2	98.3
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.4	112.8	73.3	97

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-1

Report#/Lab ID#: 126871
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	106.1	102.3	110.5
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	J	11.2	91.7	103.6	103.7
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7.9	95.3	103.8	106
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.3	97.4	104.5	109.9
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	103.3	101.3	110.3
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-1

Report#/Lab ID#: 126871
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	105	88-137	---
4-Bromofluorobenzene	624 & 8260b	125.1	85-157	---
Toluene-d8	624 & 8260b	107.7	87-122	---
Nitrobenzene-d5	8015 mod.	110	50-150	---
p-Terphenyl	8015 mod.	107	50-150	---
1,2-Dichloroethane-d4	8260b	94	65-115	---
Toluene-d8	8260b	92.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126871 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-1

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 TNRCC-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
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,4-Trimethylbenzene	J	See J-flag discussion above.
1,3,5-Trimethylbenzene	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126872 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-2
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:05

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	03/15/02	8015 mod.	J	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-2

Report#/Lab ID#: 126872
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-2

Report#/Lab ID#: 126872
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	J	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-2

Report#/Lab ID#: 126872
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	96.4	88-137	---
4-Bromofluorobenzene	624 & 8260b	115.1	85-157	---
Toluene-d8	624 & 8260b	104	87-122	---
Nitrobenzene-d5	8015 mod.	117	50-150	---
p-Terphenyl	8015 mod.	87.8	50-150	---
1,2-Dichloroethane-d4	8260b	89.5	65-115	---
Toluene-d8	8260b	83	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126872 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-2

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 TNRCC-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.
TPH by GC (as gasoline)	J	See J-flag discussion above.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Naphthalene	J	See J-flag discussion above.

Notes:

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126873 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:10

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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-3

Report#/Lab ID#: 126873
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-3

Report#/Lab ID#: 126873
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/18/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/18/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/18/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/18/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/18/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-3

Report#/Lab ID#: 126873
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	103.4	88-137	---
4-Bromofluorobenzene	624 & 8260b	119.7	85-157	---
Toluene-d8	624 & 8260b	110.2	87-122	---
Nitrobenzene-d5	8015 mod.	136	50-150	---
p-Terphenyl	8015 mod.	95.4	50-150	---
1,2-Dichloroethane-d4	8260b	89.9	65-115	---
Toluene-d8	8260b	83.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126873 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 NW-3

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 TNRCC-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
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126874 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-1
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-1

Report#/Lab ID#: 126874
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-1

Report#/Lab ID#: 126874
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-1

Report#/Lab ID#: 126874
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	95.5	88-137	---
4-Bromofluorobenzene	624 & 8260b	116.3	85-157	---
Toluene-d8	624 & 8260b	105.3	87-122	---
Nitrobenzene-d5	8015 mod.	109	50-150	---
p-Terphenyl	8015 mod.	78	50-150	---
1,2-Dichloroethane-d4	8260b	74.9	65-115	---
Toluene-d8	8260b	71.7	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126874 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-1

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126875 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-2
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:20

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)	6.79	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-2

Report#/Lab ID#: 126875
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-2

Report#/Lab ID#: 126875
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-2

Report#/Lab ID#: 126875
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	104.5	88-137	---
4-Bromofluorobenzene	624 & 8260b	129.5	85-157	---
Toluene-d8	624 & 8260b	112.5	87-122	---
Nitrobenzene-d5	8015 mod.	99.2	50-150	---
p-Terphenyl	8015 mod.	77.4	50-150	---
1,2-Dichloroethane-d4	8260b	76.6	65-115	---
Toluene-d8	8260b	76.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126875 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-2

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

AnalySys Inc.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126876 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:25

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	03/15/02	8015 mod.	J	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-3

Report#/Lab ID#: 126876
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-3

Report#/Lab ID#: 126876
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-3

Report#/Lab ID#: 126876
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	103.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	119.8	85-157	---
Toluene-d8	624 & 8260b	106.1	87-122	---
Nitrobenzene-d5	8015 mod.	126	50-150	---
p-Terphenyl	8015 mod.	82.9	50-150	---
1,2-Dichloroethane-d4	8260b	83.7	65-115	---
Toluene-d8	8260b	80.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126876 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 EW-3

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 TNRCC-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.
TPH by GC (as gasoline)	J	See J-flag discussion above.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

AnalySys Inc.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
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Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126877 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-1
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/20/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-1

Report#/Lab ID#: 126877
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/20/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/20/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/20/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-1

Report#/Lab ID#: 126877
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/20/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/20/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-1

Report#/Lab ID#: 126877
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	97.2	88-137	---
4-Bromofluorobenzene	624 & 8260b	109	85-157	---
Toluene-d8	624 & 8260b	105.3	87-122	---
Nitrobenzene-d5	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	85.9	50-150	---
1,2-Dichloroethane-d4	8260b	79.2	65-115	---
Toluene-d8	8260b	77.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126877 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-1

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126878 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-2
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:35

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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-2

Report#/Lab ID#: 126878
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-2

Report#/Lab ID#: 126878
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-2

Report#/Lab ID#: 126878
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	102.6	88-137	---
4-Bromofluorobenzene	624 & 8260b	126.3	85-157	---
Toluene-d8	624 & 8260b	110	87-122	---
Nitrobenzene-d5	8015 mod.	123	50-150	---
p-Terphenyl	8015 mod.	95	50-150	---
1,2-Dichloroethane-d4	8260b	87.1	65-115	---
Toluene-d8	8260b	83.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126878 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-2

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126879 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-3

Report#/Lab ID#: 126879
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-3

Report#/Lab ID#: 126879
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-3

Report#/Lab ID#: 126879
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	99.5	88-137	---
4-Bromofluorobenzene	624 & 8260b	109.2	85-157	---
Toluene-d8	624 & 8260b	109.6	87-122	---
Nitrobenzene-d5	8015 mod.	120	50-150	---
p-Terphenyl	8015 mod.	85.3	50-150	---
1,2-Dichloroethane-d4	8260b	80.3	65-115	---
Toluene-d8	8260b	78.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126879 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 WW-3

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126880 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-1
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:45

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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-1

Report#/Lab ID#: 126880
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-1

Report#/Lab ID#: 126880
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-1

Report#/Lab ID#: 126880
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	102.2	88-137	---
4-Bromofluorobenzene	624 & 8260b	113	85-157	---
Toluene-d8	624 & 8260b	109.9	87-122	---
Nitrobenzene-d5	8015 mod.	132	50-150	---
p-Terphenyl	8015 mod.	96.8	50-150	---
1,2-Dichloroethane-d4	8260b	80.6	65-115	---
Toluene-d8	8260b	77.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126880 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-1

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126881 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-2
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:50

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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-2

Report#/Lab ID#: 126881
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

ANALYSYS INC.
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-2

Report#/Lab ID#: 126881
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-2

Report#/Lab ID#: 126881
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	104	88-137	---
4-Bromofluorobenzene	624 & 8260b	118.8	85-157	---
Toluene-d8	624 & 8260b	112.4	87-122	---
Nitrobenzene-d5	8015 mod.	86.8	50-150	---
p-Terphenyl	8015 mod.	65.3	50-150	---
1,2-Dichloroethane-d4	8260b	84.3	65-115	---
Toluene-d8	8260b	80.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126881 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-2

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

AnalySys Inc.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126882 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 09:55

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	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-3

Report#/Lab ID#: 126882
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-3

Report#/Lab ID#: 126882
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	12.5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-3

Report#/Lab ID#: 126882
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	105.6	88-137	---
4-Bromofluorobenzene	624 & 8260b	115.3	85-157	---
Toluene-d8	624 & 8260b	110.6	87-122	---
Nitrobenzene-d5	8015 mod.	104	50-150	---
p-Terphenyl	8015 mod.	74.3	50-150	---
1,2-Dichloroethane-d4	8260b	83.6	65-115	---
Toluene-d8	8260b	76.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126882 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 SW-3

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126883 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-1
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	145	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	8.33	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	13	125.2	104.7	108.9
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-1

Report#/Lab ID#: 126883
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.2	107.3	103	105.5
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.1	97.6	93.2	98.3
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.4	112.8	73.3	97

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-1

Report#/Lab ID#: 126883
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	106.1	102.3	110.5
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	11.2	91.7	103.6	103.7
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7.9	95.3	103.8	106
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.3	97.4	104.5	109.9
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	103.3	101.3	110.3
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

ANALYSYS INC.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-1

Report#/Lab ID#: 126883
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	107	88-137	---
4-Bromofluorobenzene	624 & 8260b	129.2	85-157	---
Toluene-d8	624 & 8260b	105.3	87-122	---
Nitrobenzene-d5	8015 mod.	102	50-150	---
p-Terphenyl	8015 mod.	127	50-150	---
1,2-Dichloroethane-d4	8260b	79.3	65-115	---
Toluene-d8	8260b	82.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126883 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-1

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 TNRCC-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
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126884 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-2
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:05

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)	534	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	844	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	1440	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	J	13	125.2	104.7	108.9
1,2-Dibromoethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	1640	µg/Kg	200	<200	03/21/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-2

Report#/Lab ID#: 126884
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<4000	µg/Kg	4000	<4000	03/21/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	J	1.2	107.3	103	105.5
2-Hexanone	<800	µg/Kg	800	<800	03/21/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	J	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<2000	µg/Kg	2000	<2000	03/21/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<4000	µg/Kg	4000	<4000	03/21/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<2000	µg/Kg	2000	<2000	03/21/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<2000	µg/Kg	2000	<2000	03/21/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.1	97.6	93.2	98.3
Bromoform	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	J	7.7	74.9	76.5	81.1
Carbon disulfide	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	1.4	112.8	73.3	97

ANALYSYS INC.
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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-2

Report#/Lab ID#: 126884
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	J	4.2	106.1	102.3	110.5
Naphthalene	374	µg/Kg	200	<200	03/21/02	624 & 8260b	---	11.2	91.7	103.6	103.7
p-Isopropyltoluene	234	µg/Kg	200	<200	03/21/02	624 & 8260b	---	7.9	95.3	103.8	106
sec-Butylbenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	J	8.3	97.4	104.5	109.9
Styrene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	J	3.7	103.3	101.3	110.3
Tetrachloroethene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<200	µg/Kg	200	<200	03/21/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<400	µg/Kg	400	<400	03/21/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	54.7	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	574	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-2

Report#/Lab ID#: 126884
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	106.3	88-137	---
4-Bromofluorobenzene	624 & 8260b	112.8	85-157	---
Toluene-d8	624 & 8260b	114.1	87-122	---
Nitrobenzene-d5	8015 mod.	141	50-150	---
p-Terphenyl	8015 mod.	91	50-150	---
1,2-Dichloroethane-d4	8260b	85.7	65-115	---
Toluene-d8	8260b	88.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126884 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-2

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 TNRCC-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
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
4-Chlorotoluene	J	See J-flag discussion above.
Bromomethane	J	See J-flag discussion above.
n-Propylbenzene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes: _____

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AnalySys Inc.

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126885 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:10

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	03/18/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/18/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-3

Report#/Lab ID#: 126885
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
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Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-3

Report#/Lab ID#: 126885
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-3

Report#/Lab ID#: 126885
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	109	88-137	---
4-Bromofluorobenzene	624 & 8260b	111.8	85-157	---
Toluene-d8	624 & 8260b	103.9	87-122	---
Nitrobenzene-d5	8015 mod.	87.1	50-150	---
p-Terphenyl	8015 mod.	54.2	50-150	---
1,2-Dichloroethane-d4	8260b	97.7	65-115	---
Toluene-d8	8260b	81.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126885 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-3

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126886 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-4
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/15/02	8015 mod.	J	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-4

Report#/Lab ID#: 126886
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-4

Report#/Lab ID#: 126886
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	<20	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	<20	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	<20	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

ANALYSYS INC.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-4

Report#/Lab ID#: 126886
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	112.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	142.2	85-157	---
Toluene-d8	624 & 8260b	109	87-122	---
Nitrobenzene-d5	8015 mod.	77.2	50-150	---
p-Terphenyl	8015 mod.	63.6	50-150	---
1,2-Dichloroethane-d4	8260b	87.1	65-115	---
Toluene-d8	8260b	87.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126886 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-4

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 TNRCC-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.
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126887 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-5
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:20

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)	1090	mg/Kg	50	<50	03/18/02	8015 mod.	---	0.1	121.1	107.8	114.9
TPH by GC (as diesel-ext)	---	---	---	---	03/15/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	2290	mg/Kg	50	<50	03/18/02	8015 mod.	---	0.3	112.1	96.7	105.3
Volatile organics-8260	---	---	---	---	03/22/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	8750	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	13	125.2	104.7	108.9
1,2-Dibromoethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	5280	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-5

Report#/Lab ID#: 126887
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	1.2	107.3	103	105.5
2-Hexanone	<4000	µg/Kg	4000	<4000	03/22/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.1	97.6	93.2	98.3
Bromoform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.4	112.8	73.3	97

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-5

Report#/Lab ID#: 126887
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	5.4	92.8	97.2	101
Methylene chloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	1270	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	106.1	102.3	110.5
Naphthalene	1060	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	11.2	91.7	103.6	103.7
p-Isopropyltoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	7.9	95.3	103.8	106
sec-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	8.3	97.4	104.5	109.9
Styrene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	3.7	103.3	101.3	110.3
Tetrachloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	43.4	µg/Kg	20	<20	03/16/02	8260b	---	17.6	99.5	94.8	91.1
Ethylbenzene	1140	µg/Kg	20	<20	03/16/02	8260b	---	2.8	95.2	98.2	94.3
m,p-Xylenes	9450	µg/Kg	20	<20	03/16/02	8260b	---	1.9	96.4	99.7	95.5
o-Xylene	2080	µg/Kg	20	<20	03/16/02	8260b	---	2.2	89.7	94.5	91.6
Toluene	536	µg/Kg	20	<20	03/16/02	8260b	---	15.9	107.6	102.6	100.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-5

Report#/Lab ID#: 126887
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	84.3	65-115	---
4-Bromofluorobenzene	624 & 8260b	99.1	50-120	---
Toluene-d8	624 & 8260b	102.7	50-120	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	82.3	65-115	---
Toluene-d8	8260b	57.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126887 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,3-Trichloropropane	J	See J-flag discussion above.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
2-Chlorotoluene	J	See J-flag discussion above.
4-Chlorotoluene	J	See J-flag discussion above.
Isopropylbenzene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
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.

Exceptions Report:

Report #/Lab ID#: 126887 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-5

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126888 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-6
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:25

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)	676	mg/Kg	5	<5	03/18/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	1050	mg/Kg	50	<50	03/19/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/22/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	5050	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	13	125.2	104.7	108.9
1,2-Dibromoethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	4090	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-6

Report#/Lab ID#: 126888
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.2	107.3	103	105.5
2-Hexanone	<4000	µg/Kg	4000	<4000	03/22/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.1	97.6	93.2	98.3
Bromoform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.4	112.8	73.3	97

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-6

Report#/Lab ID#: 126888
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	15.4	90.5	102.4	105.6
n-Propylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	4.2	106.1	102.3	110.5
Naphthalene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	11.2	91.7	103.6	103.7
p-Isopropyltoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	7.9	95.3	103.8	106
sec-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	8.3	97.4	104.5	109.9
Styrene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	3.7	103.3	101.3	110.3
Tetrachloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	408	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	3870	µg/Kg	20	<20	03/15/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	182	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-6

Report#/Lab ID#: 126888
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	86.6	65-115	---
4-Bromofluorobenzene	624 & 8260b	98.5	50-120	---
Toluene-d8	624 & 8260b	104	50-120	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	135	50-150	---
1,2-Dichloroethane-d4	8260b	93.9	65-115	---
Toluene-d8	8260b	84.9	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126888 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-6

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,3-Trichloropropane	J	See J-flag discussion above.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
n-Butylbenzene	J	See J-flag discussion above.
n-Propylbenzene	J	See J-flag discussion above.
Naphthalene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126889 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-7
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **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	03/18/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/18/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-7

Report#/Lab ID#: 126889
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-7

Report#/Lab ID#: 126889
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-7

Report#/Lab ID#: 126889
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	112.7	88-137	---
4-Bromofluorobenzene	624 & 8260b	120.9	85-157	---
Toluene-d8	624 & 8260b	109.5	87-122	---
Nitrobenzene-d5	8015 mod.	107	50-150	---
p-Terphenyl	8015 mod.	63.9	50-150	---
1,2-Dichloroethane-d4	8260b	103	65-115	---
Toluene-d8	8260b	81.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126889 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-7

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 TNRCC-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
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126890 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-8
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:35

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)	1460	mg/Kg	50	<50	03/19/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	2050	mg/Kg	50	<50	03/19/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/22/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	6560	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	13	125.2	104.7	108.9
1,2-Dibromoethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	3980	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-8

Report#/Lab ID#: 126890
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.2	107.3	103	105.5
2-Hexanone	<4000	µg/Kg	4000	<4000	03/22/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	3.1	97.6	93.2	98.3
Bromoform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.4	112.8	73.3	97

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-8

Report#/Lab ID#: 126890
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	4.2	106.1	102.3	110.5
Naphthalene	1110	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	11.2	91.7	103.6	103.7
p-Isopropyltoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	7.9	95.3	103.8	106
sec-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	8.3	97.4	104.5	109.9
Styrene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	3.7	103.3	101.3	110.3
Tetrachloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	J	1.9	87	89.8	89
Ethylbenzene	927	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	6620	µg/Kg	20	<20	03/15/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	1080	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	46.4	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-8

Report#/Lab ID#: 126890
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	83	65-115	---
4-Bromofluorobenzene	624 & 8260b	95.9	50-120	---
Toluene-d8	624 & 8260b	97.2	50-120	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	105	65-115	---
Toluene-d8	8260b	73.2	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126890 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-8

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 TNRCC-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
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,3-Trichloropropane	J	See J-flag discussion above.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Bromodichloromethane	J	See J-flag discussion above.
n-Propylbenzene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
Benzene	J	See J-flag discussion above.
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.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040
Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126891 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-9
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:40

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)	1090	mg/Kg	50	<50	03/19/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	1460	mg/Kg	50	<50	03/19/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/22/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	6320	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	13	125.2	104.7	108.9
1,2-Dibromoethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	4130	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-9

Report#/Lab ID#: 126891
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	1.2	107.3	103	105.5
2-Hexanone	<4000	µg/Kg	4000	<4000	03/22/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<20000	µg/Kg	20000	<20000	03/22/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<10000	µg/Kg	10000	<10000	03/22/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	3.1	97.6	93.2	98.3
Bromoform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1.4	112.8	73.3	97

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-9

Report#/Lab ID#: 126891
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	4.2	106.1	102.3	110.5
Naphthalene	1190	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	11.2	91.7	103.6	103.7
p-Isopropyltoluene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	7.9	95.3	103.8	106
sec-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	8.3	97.4	104.5	109.9
Styrene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	J	3.7	103.3	101.3	110.3
Tetrachloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	780	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	6920	µg/Kg	20	<20	03/15/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	1910	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	128	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-9

Report#/Lab ID#: 126891
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	75.3	65-115	---
4-Bromofluorobenzene	624 & 8260b	86.7	50-120	---
Toluene-d8	624 & 8260b	90.9	50-120	---
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
1,2-Dichloroethane-d4	8260b	102	65-115	---
Toluene-d8	8260b	70.3	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126891 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-9

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,3-Trichloropropane	J	See J-flag discussion above.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
2-Chlorotoluene	J	See J-flag discussion above.
Bromodichloromethane	J	See J-flag discussion above.
n-Propylbenzene	J	See J-flag discussion above.
p-Isopropyltoluene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
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.

Exceptions Report:

Report #/Lab ID#: 126891 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-9

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126892 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-10
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:45

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	03/18/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/18/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-10

Report#/Lab ID#: 126892
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-10

Report#/Lab ID#: 126892
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/02	8260b	J	0.1	107.7	119.2	115.6
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-10

Report#/Lab ID#: 126892
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	97.9	88-137	---
4-Bromofluorobenzene	624 & 8260b	105.8	85-157	---
Toluene-d8	624 & 8260b	104.5	87-122	---
Nitrobenzene-d5	8015 mod.	88.3	50-150	---
p-Terphenyl	8015 mod.	59.6	50-150	---
1,2-Dichloroethane-d4	8260b	115	65-115	---
Toluene-d8	8260b	84.6	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126892 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-10

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 TNRCC-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
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.
m,p-Xylenes	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126893 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-11
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:50

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)	323	mg/Kg	5	<5	03/18/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	371	mg/Kg	5	<5	03/18/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/22/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	2.5	104.4	98.4	98.4
1,1,1-Trichloroethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	6.8	99.8	98.8	104
1,1,2,2-Tetrachloroethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	J	1.4	116.8	98.1	92.6
1,1,2-Trichloroethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	1.1	113.1	103.8	99.3
1,1-Dichloroethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	5.8	114.4	102.2	104.9
1,1-Dichloroethene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	1.8	106.6	95.9	99.7
1,1-Dichloropropene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	8.8	102.6	101	116
1,2,3-Trichlorobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,3-Trichloropropane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	14.8	130	94.6	98.1
1,2,4-Trichlorobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	P	28.2	77.3	104.3	103.8
1,2,4-Trimethylbenzene	1090	µg/Kg	200	<200	03/21/02	624 & 8260b	---	3.4	104.3	101.7	104.8
1,2-Dibromo-3-chloropropane	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	J	13	125.2	104.7	108.9
1,2-Dibromoethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	4	114.2	102.8	100.7
1,2-Dichlorobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	8	102.5	105.5	107
1,2-Dichloroethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	2.6	95.3	91.9	96.1
1,2-Dichloropropane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	6.1	103.5	101.5	120.2
1,3,5-Trimethylbenzene	1210	µg/Kg	200	<200	03/21/02	624 & 8260b	---	5.6	102.2	102.9	108

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-11

Report#/Lab ID#: 126893
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	7.8	103.2	102.6	104.1
1,3-Dichloropropane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	3.5	113.1	100	101.9
1,4-Dichlorobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	5.4	103.7	102.7	102.7
1,4-Dioxane	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	9.7	117.7	95.4	100
2,2-Dichloropropane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	12.2	116.8	97.6	108.4
2-Butanone (MEK)	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	4.5	132.5	110.1	105.5
2-Chloroethyl vinyl ether	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	37.1	77	90.9	875.6
2-Chlorotoluene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	J	1.2	107.3	103	105.5
2-Hexanone	<400	µg/Kg	400	<400	03/22/02	624 & 8260b	---	2.7	119.2	105	101.3
4-Chlorotoluene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	J	6.1	105.8	102.6	109.2
4-Methyl-2-pentanone (MIBK)	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	1.8	110	104.9	99.6
Acetone	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	1	99.1	85.9	89.2
Acetonitrile	<2000	µg/Kg	2000	<2000	03/22/02	624 & 8260b	---	1.2	105.5	96.8	99
Acrolein	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	22.7	108.9	96.5	94.8
Acrylonitrile	<1000	µg/Kg	1000	<1000	03/22/02	624 & 8260b	---	34.3	79.8	102.8	107.7
Bromobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	0.3	112.1	103.6	110.8
Bromochloromethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	13.6	103.2	101.1	101
Bromodichloromethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	3.1	97.6	93.2	98.3
Bromoform	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	3.9	105.7	103.1	101
Bromomethane	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	7.7	74.9	76.5	81.1
Carbon disulfide	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	19.5	86.8	95.7	99.3
Carbon tetrachloride	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	4.2	89.3	86.8	90.4
Chlorobenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	0.5	104.5	99.8	99.7
Chloroethane	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	0.7	104.2	93	97.5
Chloroform	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	7.1	106.2	99	116.6
Chloromethane	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	2.7	97.9	92.6	106.3
cis-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	13.8	112.6	110.7	115.1
cis-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	0	104.2	96	101.4
Dibromochloromethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	4.7	110.4	99.3	97.8
Dibromomethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	3.7	103.3	93.1	98.3
Dichlorodifluoromethane	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	3.6	83	83.7	87.8
Hexachlorobutadiene	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	22.7	70.2	103.9	104.1
Iodomethane	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	1.4	112.8	73.3	97

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-11

Report#/Lab ID#: 126893
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	5.4	92.8	97.2	101
Methylene chloride	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	15.2	93.6	94.7	95.2
MTBE	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	16.4	105.7	66.6	99.3
n-Butylbenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	15.4	90.5	102.4	105.6
n-Propylbenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	J	4.2	106.1	102.3	110.5
Naphthalene	144	µg/Kg	100	<100	03/22/02	624 & 8260b	---	11.2	91.7	103.6	103.7
p-Isopropyltoluene	433	µg/Kg	200	<200	03/21/02	624 & 8260b	---	7.9	95.3	103.8	106
sec-Butylbenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	J	8.3	97.4	104.5	109.9
Styrene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	6	100.2	102.7	101.3
tert-Butylbenzene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	J	3.7	103.3	101.3	110.3
Tetrachloroethene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	4.2	99.7	99.4	99
trans-1,2-Dichloroethene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	3.6	99.1	102.9	86.6
trans-1,3-Dichloropropene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	3.2	116.5	96.3	98.4
Trichloroethene	<100	µg/Kg	100	<100	03/22/02	624 & 8260b	---	2.4	92.5	100.2	104.3
Trichlorofluoromethane	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	2.7	99	90.6	92.8
Vinyl acetate	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	S,M,P	49.7	189.5	128.7	85.9
Vinyl chloride	<200	µg/Kg	200	<200	03/22/02	624 & 8260b	---	0.5	100.8	86.8	92
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	36.1	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	325	µg/Kg	20	<20	03/15/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

ANALYSYS INC.

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-11

Report#/Lab ID#: 126893
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	83.75	65-115	---
4-Bromofluorobenzene	624 & 8260b	95	50-120	---
Toluene-d8	624 & 8260b	101.4	50-120	---
Nitrobenzene-d5	8015 mod.	84.1	50-150	---
p-Terphenyl	8015 mod.	63.1	50-150	---
1,2-Dichloroethane-d4	8260b	111	65-115	---
Toluene-d8	8260b	79.4	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126893 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-11

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 TNRCC-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
1,1,2,2-Tetrachloroethane	J	See J-flag discussion above.
1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
1,2-Dibromo-3-chloropropane	J	See J-flag discussion above.
2-Chlorotoluene	J	See J-flag discussion above.
4-Chlorotoluene	J	See J-flag discussion above.
n-Propylbenzene	J	See J-flag discussion above.
sec-Butylbenzene	J	See J-flag discussion above.
tert-Butylbenzene	J	See J-flag discussion above.
Vinyl acetate Vinyl acetate	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Vinyl acetate	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126894 **Report Date:** 03/26/02
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-12
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:28
Date Sampled: 03/12/2002 **Time:** 10:55

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	03/18/02	8015 mod.	---	6.6	79.7	103.9	90.7
TPH by GC (as diesel-ext)	---	---	---	---	03/18/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/18/02	8015 mod.	---	1	89.8	91.1	107
Volatile organics-8260	---	---	---	---	03/21/02	624 & 8260b	---	---	---	---	---
1,1,1,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	95.2	93.9	95.8
1,1,1-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.9	95	100.9	96.8
1,1,2,2-Tetrachloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	114.1	96.1	103.4
1,1,2-Trichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.7	114	99.6	99.8
1,1-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.7	112.3	111.8	107.7
1,1-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	98.4	99.2	95.9
1,1-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.8	98.8	109.3	102.7
1,2,3-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,3-Trichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.7	115.3	92.6	87.6
1,2,4-Trichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.2	76.6	101.1	103.3
1,2,4-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.7	93	110.1	102.3
1,2-Dibromo-3-chloropropane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4	110.2	89.2	88.8
1,2-Dibromoethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.9	107.4	96.7	100.9
1,2-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	95.9	103.5	101.7
1,2-Dichloroethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	87.4	82	85.9
1,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1	106.5	99.8	105.7
1,3,5-Trimethylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	7	88.9	106.1	99.8

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-12

Report#/Lab ID#: 126894
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
1,3-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.6	95.1	106.5	103.1
1,3-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	112.3	97.6	101
1,4-Dichlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	94	106.9	102.5
1,4-Dioxane	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	11	131.6	89.1	101.6
2,2-Dichloropropane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	9.7	93.8	110.2	91.2
2-Butanone (MEK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	3.4	132	108.6	112.7
2-Chloroethyl vinyl ether	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	33.9	31.6	45.2	59.4
2-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	95.2	107.4	99.1
2-Hexanone	<20	µg/Kg	20	<20	03/21/02	624 & 8260b	---	4.1	124.4	96.3	109
4-Chlorotoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	96	110.7	102.6
4-Methyl-2-pentanone (MIBK)	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	1	111.2	94.9	105.6
Acetone	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	1.4	95	77.8	84.1
Acetonitrile	<100	µg/Kg	100	<100	03/21/02	624 & 8260b	---	7.3	118.5	93.4	100
Acrolein	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	2.3	113	109.7	111.1
Acrylonitrile	<50	µg/Kg	50	<50	03/21/02	624 & 8260b	---	4.5	111.5	72	82.4
Bromobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.3	107.4	112.7	103.4
Bromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	8.6	112.1	104.7	99.6
Bromodichloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.1	90.1	88.1	92
Bromoform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.3	102.5	90.9	93.7
Bromomethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	79.4	75.6	69.4
Carbon disulfide	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.7	89.4	91.1	92.8
Carbon tetrachloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.7	74.4	86.7	82.8
Chlorobenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.4	97.8	103.7	101.9
Chloroethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	2.9	104	101.1	97.8
Chloroform	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.8	104.4	104.9	99.8
Chloromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	4.1	101.7	86.1	98.2
cis-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	3.4	121	119.2	113.4
cis-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.2	102.2	102.9	101.7
Dibromochloromethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.2	104	90.6	93.6
Dibromomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.3	97.1	89.5	94.1
Dichlorodifluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.3	84.4	84.5	81
Hexachlorobutadiene	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	S,M	7.9	46.1	102.9	98.8
Iodomethane	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0.8	110.2	119	82.2

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-12

Report#/Lab ID#: 126894
Sample Matrix: soil

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA[1]**

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Isopropylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	82.6	98.7	98.7
Methylene chloride	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	0	106	91.2	90.3
MTBE	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	15.8	63.8	71.7	52.3
n-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.1	74.6	114.5	103.8
n-Propylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.3	94.2	118.3	103.6
Naphthalene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6	90	93.6	98
p-Isopropyltoluene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.5	80.8	107.8	101.5
sec-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.2	84.6	110.9	104.8
Styrene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	99.9	107.8	105.1
tert-Butylbenzene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	5.9	88.4	107.1	100.2
Tetrachloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	4.1	90.2	102	101.1
trans-1,2-Dichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	6.6	95.9	97.2	92
trans-1,3-Dichloropropene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	2.2	104.6	104	96.2
Trichloroethene	<5	µg/Kg	5	<5	03/21/02	624 & 8260b	---	1.6	85.6	93.3	93.9
Trichlorofluoromethane	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	5.9	84.4	86.8	84.3
Vinyl acetate	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	25.2	96.5	276.7	225.8
Vinyl chloride	<10	µg/Kg	10	<10	03/21/02	624 & 8260b	---	0.5	91.6	94.4	85.5
Benzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.9	87	89.8	89
Ethylbenzene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	96.7	107.5	102.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/15/02	8260b	---	0.1	107.7	119.2	115.6
o-Xylene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1.1	102.2	113.4	109.2
Toluene	<20	µg/Kg	20	<20	03/15/02	8260b	---	1	102.1	102.3	99.6

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-12

Report#/Lab ID#: 126894
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	624 & 8260b	109.2	88-137	---
4-Bromofluorobenzene	624 & 8260b	121.2	85-157	---
Toluene-d8	624 & 8260b	104.2	87-122	---
Nitrobenzene-d5	8015 mod.	107	50-150	---
p-Terphenyl	8015 mod.	54.1	50-150	---
1,2-Dichloroethane-d4	8260b	109	65-115	---
Toluene-d8	8260b	87.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126894 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 2
Sample Name: Pit 2 PB-12

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 TNRCC-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
Hexachlorobutadiene	S,M	MS and/or MSD recoveries outside advisory/acceptance limits. LCS recovery in-limits; indicative of matrix interference as evidenced by M-flag.

Notes:

CHAIN-OF-CUSTODY

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Phone: (713) 345-1537 Fax: (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): STANDARD
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 MOD (GRO-GRO)	VOC 8260						Comments
PIT 2 NW-1	3-12-02	0900	1	✓			126871	✓	✓		X					
PIT 2 NW-2		0905	1	✓			126872	✓	✓		X					
PIT 2 NW-3		0910	1	✓			126873	✓	✓		X					
PIT 2 EW-1		0915	1	✓			126874	✓	✓		X					
PIT 2 EW-2		0920	1	✓			126875	✓	✓		X					
PIT 2 EW-3		0925	1	✓			126876	✓	✓		X					
PIT 2 WW-1		0930	1	✓			126877	✓	✓		X					
PIT 2 WW-2		0935	1	✓			126878	✓	✓		X					
PIT 2 WW-3		0940	1	✓			126879	✓	✓		X					
PIT 2 SW-1		0945	1	✓			126880	✓	✓		X					

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-12-02	1700	Melanie Humphrey	ASI	3/14/02	10:28

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

CHAIN-OF-CUSTODY

ANALYSYS INC.
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City HOUSTON State TX Zip 77002
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Phone (713) 345-1537 Fax (713) 646 7867

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

Rush Status (must be confirmed with lab mgr.): STANDARD
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIENS

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	OTEX 8260 B	TH 8015 MOD (DRO-GRO)	VOC 8260					Comments
PIT 2 SW-2	3-12-02, ~~0950~~	0950	1	✓			126881	✓	✓	X					
PIT 2 SW-3	~~0955~~	0955	1	✓			126882	✓	✓	X					
PIT 2 PB-1		1000	1	✓			126883	✓	✓	X					
PIT 2 PB-2		1005	1	✓			126884	✓	✓	X					
PIT 2 PB-3		1010	1	✓			126885	✓	✓	X					
PIT 2 PB-4		1015	1	✓			126886	✓	✓	X					
PIT 2 PB-5		1020	1	✓			126887	✓	✓	X					
PIT 2 PB-6		1025	1	✓			126888	✓	✓	X					
PIT 2 PB-7		1030	1	✓			126889	✓	✓	X					
PIT 2 PB-8		1035	1	✓			126890	✓	✓	X					

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

TEMP: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIENS	CYPRESS ENG.	3-12-02	1700	Melanie Humphrey	ASI	3/14/02	10:28

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

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Company Name: ENRON PRICEING
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Rush Status (must be confirmed with lab mgr.): STANDARD.
Project Name/PO#: ROSWELL PIT #2 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B.	TPH 8015 MOD. (GRO-GRO)		VOC 8260 B						Comments
PIT 2 PB-9	3-12-02	1040	1	✓			126891	✓	✓		X						
PIT 2 PB-10		1045	1	✓			126892	✓	✓		X						
PIT 2 PB-11		1050	1	✓			126893	✓	✓		X						
PIT 2 PB-12		1055	1	✓			126894	✓	✓		X						

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TEMP: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENR.	3-12-02	1700	Melanie Humphrey	ASI	3/14/02	10:28

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

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 126850 **Report Date:** 03/15/02
Project ID: Roswell Pit 1
Sample Name: SPS-19 Test-3
Sample Matrix: soil
Date Received: 03/14/2002 **Time:** 10:24
Date Sampled: 03/13/2002 **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)	92.1	mg/Kg	5	<5	03/15/02	8015 mod.	---	2.1	121.4	116.3	98.7
TPH by GC (as diesel-ext)	---	---	---	---	03/14/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	46.5	mg/Kg	5	<5	03/15/02	8015 mod.	---	0.1	120.3	107.8	108.9
Volatile organics-8260b/BTEX	---		---		03/14/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/14/02	8260b	---	3.5	91.3	95.1	95.7
Ethylbenzene	<20	µg/Kg	20	<20	03/14/02	8260b	---	4	93.1	94.4	96.6
m,p-Xylenes	30.6	µg/Kg	20	<20	03/14/02	8260b	---	3.7	95	96.7	98.1
o-Xylene	<20	µg/Kg	20	<20	03/14/02	8260b	J	3.9	89.7	92.2	93.5
Toluene	<20	µg/Kg	20	<20	03/14/02	8260b	---	2.5	98.7	102.4	104.3

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Pit 1
Sample Name: SPS-19 Test-3

Report#/Lab ID#: 126850
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	121	50-150	---
p-Terphenyl	8015 mod.	114	50-150	---
1,2-Dichloroethane-d4	8260b	79.6	65-115	---
Toluene-d8	8260b	78.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 126850 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Pit 1
Sample Name: SPS-19 Test-3

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 TNRCC-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
o-Xylene	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name TRANSWESTERN PIPELINE
Address 1400 SMITH ROOM ECW 4504A
City HOUSTON State TX Zip 77002
ATTN: GEORGE ROBINSON
Phone (713) 345-1537 Fax (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): RUSH.
Project Name/PO#: ROSWELL PIT 1 Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260 B	TPH 8015 MOD (NO-GRO)								Comments
SPS - 19 - TEST - 3	3-13-02	1145	1	1			126850	✓	✓								

Rush

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Temp: 0.0 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG.	3-13-02	1700	Melanie Humphry	ASI	3/14/02	10:29

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

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Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 127045 **Report Date:** 03/22/02
Project ID: Roswell Excavation
Sample Name: Back fill -1
Sample Matrix: soil
Date Received: 03/20/2002 **Time:** 11:22
Date Sampled: 03/19/2002 **Time:** 13:30

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	03/20/02	8015 mod.	---	1.8	102.6	83.3	102.4
TPH by GC (as diesel-ext)	---	---	---	---	03/20/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/20/02	8015 mod.	---	0.8	109.8	92.4	111.5
Volatile organics-8260b/BTEX	---		---		03/21/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/21/02	8260b	---	5.5	79.2	86.8	83.6
Ethylbenzene	<20	µg/Kg	20	<20	03/21/02	8260b	---	4	96	109.6	103.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/21/02	8260b	---	4.3	102.1	116.5	109.8
o-Xylene	<20	µg/Kg	20	<20	03/21/02	8260b	---	6.1	95.9	109.4	103.9
Toluene	<20	µg/Kg	20	<20	03/21/02	8260b	---	5.3	87.6	99.2	92.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Excavation
Sample Name: Back fill -1

Report#/Lab ID#: 127045
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	76.6	50-150	---
1,2-Dichloroethane-d4	8260b	87.9	65-115	---
Toluene-d8	8260b	88.8	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 127045 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Excavation
Sample Name: Back fill -1

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment

Notes: _____

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 127046 **Report Date:** 03/22/02
Project ID: Roswell Excavation
Sample Name: Back fill - 2
Sample Matrix: soil
Date Received: 03/20/2002 **Time:** 11:22
Date Sampled: 03/19/2002 **Time:** 13:35

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	03/20/02	8015 mod.	---	1.8	102.6	83.3	102.4
TPH by GC (as diesel-ext)	---	---	---	---	03/20/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/20/02	8015 mod.	---	0.8	109.8	92.4	111.5
Volatile organics-8260b/BTEX	---		---		03/21/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/21/02	8260b	---	5.5	79.2	86.8	83.6
Ethylbenzene	<20	µg/Kg	20	<20	03/21/02	8260b	---	4	96	109.6	103.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/21/02	8260b	---	4.3	102.1	116.5	109.8
o-Xylene	<20	µg/Kg	20	<20	03/21/02	8260b	---	6.1	95.9	109.4	103.9
Toluene	<20	µg/Kg	20	<20	03/21/02	8260b	---	5.3	87.6	99.2	92.4

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Excavation
Sample Name: Back fill - 2

Report#/Lab ID#: 127046
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	108	50-150	---
p-Terphenyl	8015 mod.	61.3	50-150	---
1,2-Dichloroethane-d4	8260b	82.6	65-115	---
Toluene-d8	8260b	83.1	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 127046 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Excavation
Sample Name: Back fill - 2

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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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment

Notes: _____

_____

_____

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 1400 Smith Room ECN-4534A
Houston Tx 77040

Phone: 713 345-1537 **FAX:** 713 646-7867

Report#/Lab ID#: 127047 **Report Date:** 03/22/02
Project ID: Roswell Excavation
Sample Name: Back fill - 3
Sample Matrix: soil
Date Received: 03/20/2002 **Time:** 11:22
Date Sampled: 03/19/2002 **Time:** 13:40

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	03/20/02	8015 mod.	---	1.8	102.6	83.3	102.4
TPH by GC (as diesel-ext)	---	---	---	---	03/20/02	3540	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	03/20/02	8015 mod.	---	0.8	109.8	92.4	111.5
Volatile organics-8260b/BTEX	---		---		03/21/02	8260b	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	03/21/02	8260b	---	5.5	79.2	86.8	83.6
Ethylbenzene	<20	µg/Kg	20	<20	03/21/02	8260b	---	4	96	109.6	103.9
m,p-Xylenes	<20	µg/Kg	20	<20	03/21/02	8260b	---	4.3	102.1	116.5	109.8
o-Xylene	<20	µg/Kg	20	<20	03/21/02	8260b	---	6.1	95.9	109.4	103.9
Toluene	<20	µg/Kg	20	<20	03/21/02	8260b	---	5.3	87.6	99.2	92.4

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Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: Roswell Excavation
Sample Name: Back fill - 3

Report#/Lab ID#: 127047
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	115	50-150	---
p-Terphenyl	8015 mod.	74	50-150	---
1,2-Dichloroethane-d4	8260b	92.2	65-115	---
Toluene-d8	8260b	96.5	50-120	---

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

Exceptions Report:

Report #/Lab ID#: 127047 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: Roswell Excavation
Sample Name: Back fill - 3

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment

Notes: _____

_____

_____

CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports to:
Company Name: TRANSWESTERN PIPELINE
Address: 1400 SMITH ROOM ECN 4534A
City: Houston State: TX Zip: 77002
ATTN: GEORGE ROBINSON
Phone: (713) 345-1532 Fax: (713) 646-7867

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

Rush Status (must be confirmed with lab mgr.): STANDARD
Project Name/PO#: ROSWELL EXCAVATION Sampler: GEORGE FRIEND

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8260B	TPH 8015 Mod (GRO-DRO)								Comments
BACK FILL - 1	3-19-02	1330	1	✓			127045	✓	✓								
BACK FILL - 2		1335	1	✓			127046	✓	✓								
BACK FILL - 3		1340	1	✓			127047	✓	✓								

(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 reporting 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 or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

TEMP: 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
G. FRIEND	CYPRESS ENG	3-18-02	1700	Melanie Humphreys	ASI	3/20/02	11:22

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