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July 27, 2005
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Mr. Leland Smith
Pipeline Excavators
P.O. Box 1755
Sebastopol, California 95473-1755

Subject: **2nd Quarter 2005 Monitoring Report**
Pipeline Excavators, 5715 Sebastopol Road, Sebastopol, California
SCDHS-EHD Site #00001115; NCRWQCB Site #1TSO641

Dear Mr. Smith:

This report presents the results of the 2nd Quarter 2005 groundwater monitoring and sampling event performed at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. This work was performed in accordance with recommendations from Mr. Dale Radford of the Sonoma County Department of Health Services Environmental Health Division (SCDHS-EHD).

Monitoring and Domestic Well Sampling

On June 27, 2005, groundwater samples were collected from monitoring wells MW-1, MW-2, MW-4 through MW-7, and domestic wells DW-6100 and DW-6140. The approximate well locations and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured and each monitoring well was checked for the presence of free product using an oil/water interface probe. No free product was reported during this monitoring event. To produce representative groundwater samples, the monitoring wells were then purged of approximately three well casing volumes using a submersible pump. In addition, the indicator parameters such as the temperature, pH, and conductivity were measured during purging and recorded on the attached Groundwater Field Sampling Forms, Appendix A. The water level in each monitoring well was then allowed to sufficiently recover prior to sampling. Groundwater samples were collected using a new disposable bailer for each well and transferred into the appropriate containers supplied by the laboratory. The domestic well at 6100 Sebastopol Road (DW-6100) was sampled through the hose bib located on top of the well casing. Water was allowed to run for approximately five minutes before samples were obtained. The domestic well located at 6140 Sebastopol Road (DW-6140) is currently non-operational and the pump was removed to allow sample collection with a disposable bailer. Groundwater removed from the monitoring wells during purging and rinse water is stored onsite in 55-gallon DOT-approved drums labeled with non-hazardous waste designations, pending disposal. The groundwater samples collected were labeled, stored on ice, and then transported under chain-of-custody documentation to Alpha Analytical Laboratories, Inc. of Ukiah, California for chemical analysis.

Water Level Measurements

Monitoring well top-of-casing (TOC) elevations, depths-to-groundwater, the calculated water level elevations, and the calculated groundwater flow direction and gradient for the June 27, 2005 sampling event are presented on Table 1. Elevations are expressed in feet relative to mean sea level (msl), depths are expressed in feet, and the gradient is expressed in feet per foot. Historical groundwater flow directions and gradient data is presented in Appendix B.

Table 1: Groundwater Flow Direction and Gradient

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient (i)
06/27/05	MW-1	70.83	2.59	68.24	Southwesterly i = 0.02
	MW-2	70.95	2.72	68.23	
	MW-3	----removed----			
	MW-4	74.05	6.23	67.82	
	MW-5	74.14	5.95	68.19	
	MW-6	70.16	2.32	67.84	
	MW-7	70.35	3.45	66.90	

Groundwater elevation contours based on wells MW-1, MW-2, and MW-4 through MW-7 for the June 27, 2005 sampling event are shown on Plate 2.

Laboratory Chemical Analysis

Groundwater samples collected from the monitoring and domestic wells were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and TPH as diesel (d) using Environmental Protection Agency (EPA) Test Methods 8260 and 8015, respectively. The volatile organic compounds: benzene, toluene, ethyl benzene, and total xylenes (BTEX), the additional oxygenated fuel additives, including methyl tert- butyl ether (MtBE), and the lead scavengers were analyzed using EPA Test Method 8260B. The laboratory chemical results are presented on page 3, Table 2. TPH-g, TPH-d, BTEX, and MtBE results are expressed in units of micrograms per liter (µg/L). The laboratory analytical reports and chain-of-custody documentation are attached in Appendix C. Historical groundwater analytical results are presented in Appendix D. Time vs. Concentration Graphs that plot concentrations of TPH-g, TPH-d, benzene, and MtBE over time for MW-1 and MtBE concentrations over time for MW-2, and MW-4 through MW-7 are presented as Appendix E.

Table 2: Groundwater Analytical Results

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
06/27/05	MW-1	**1,400**	**190***	<0.30	**0.39**	<0.50	<0.50	**40**
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**31**
	MW-3	----removed----						
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	**45**
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	**15**
	MW-6	**68**	<50	<0.30	<0.30	<0.50	<0.50	**8.9**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	**39**[+]
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Less than the laboratory test method detection limit.
+ = 1,2-Dichloroethane detected at 5.6 µg/L.
* = Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.

Discussion

During this sampling event, TPH-g was detected in the samples collected from MW-1 and MW-6 at concentrations of 1,400µg/L and 68 µg/L, respectively. TPH-d was detected in the sample collected from MW-1 at a concentration of 190 µg/L. However, the laboratory reported that the sample analysis indicated the presence of hydrocarbons lower in molecular weight than diesel. MtBE was detected in monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-7 with a maximum concentration of 45 µg/L detected in the samples collected from MW-4. 1,2-dichloroethane (a lead scavenger) was detected in the samples collected from MW-7 at a concentration of 5.6 µg/L. The samples collected from DW-6100 and DW-6140 are below the reported laboratory detection limits for the analyses requested.

The most recent detection of TPH-g in the samples collected indicates that MW-6 may be near the leading edge of groundwater impact. However, TPH-g in MW-6 has only been sporadically detected in the past (please refer to Appendix D, Historical Groundwater Analytical Results for complete details) and may simply be anamolous. We will continue to closely monitor the contaminant trends for samples collected from MW-6.

In general, it appears that contaminant trends are gradually decreasing over time for wells MW-1, MW-2, MW-5, and MW-6. However, MtBE concentrations appear to be increasing over time for wells MW-4 and MW-7. In addition, it also appears that groundwater contaminant concentrations detected in (down gradient) wells MW-1, MW-2, MW-6, and MW-7 historically increase with high groundwater levels whereas groundwater contaminant concentrations detected in (up gradient) wells MW-4 and MW-5 typically decrease with high groundwater levels.

Our next sampling event is scheduled for September 2005.

We appreciate the opportunity to be of service to you and trust that this provides the information you require at this time. If you have any questions or require any additional information, please feel free to contact us at (707) 575-8622 or www.transtechconsultants.com.

Sincerely,
TRANS TECH CONSULTANTS

Brian R. Hasik
Staff Geologist

Lee S. Hurvitz, PG 7573
Professional Geologist

PROFESSIONAL GEOLOGIST
LEE S. HURVITZ
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GEOLOGIST
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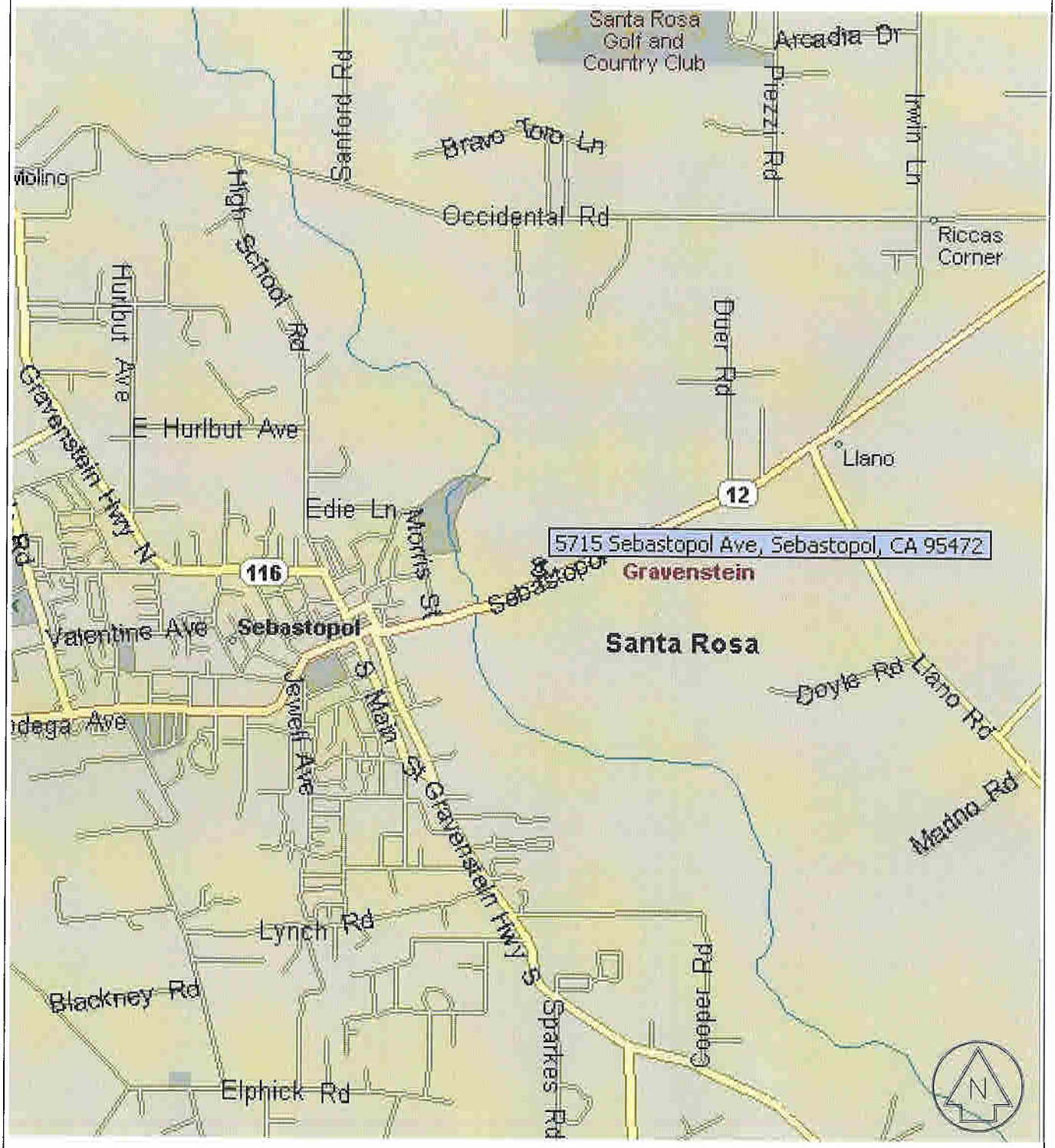
QMR_1301_01_072705

Attachments:

- Plate 1, Site Location Map
- Plate 2, Site Plan/Groundwater Elevation Contour Map
- Appendix A, Groundwater Field Sampling Forms
- Appendix B, Historical Groundwater Elevation and Gradient Data
- Appendix C, Alpha Analytical Laboratory Report dated July 13, 2005
- Appendix D, Historical Groundwater Analytical Results
- Appendix E, Time vs. Concentration Graphs for MW-1, MW-2, MW-4 through MW-7
- Distribution List



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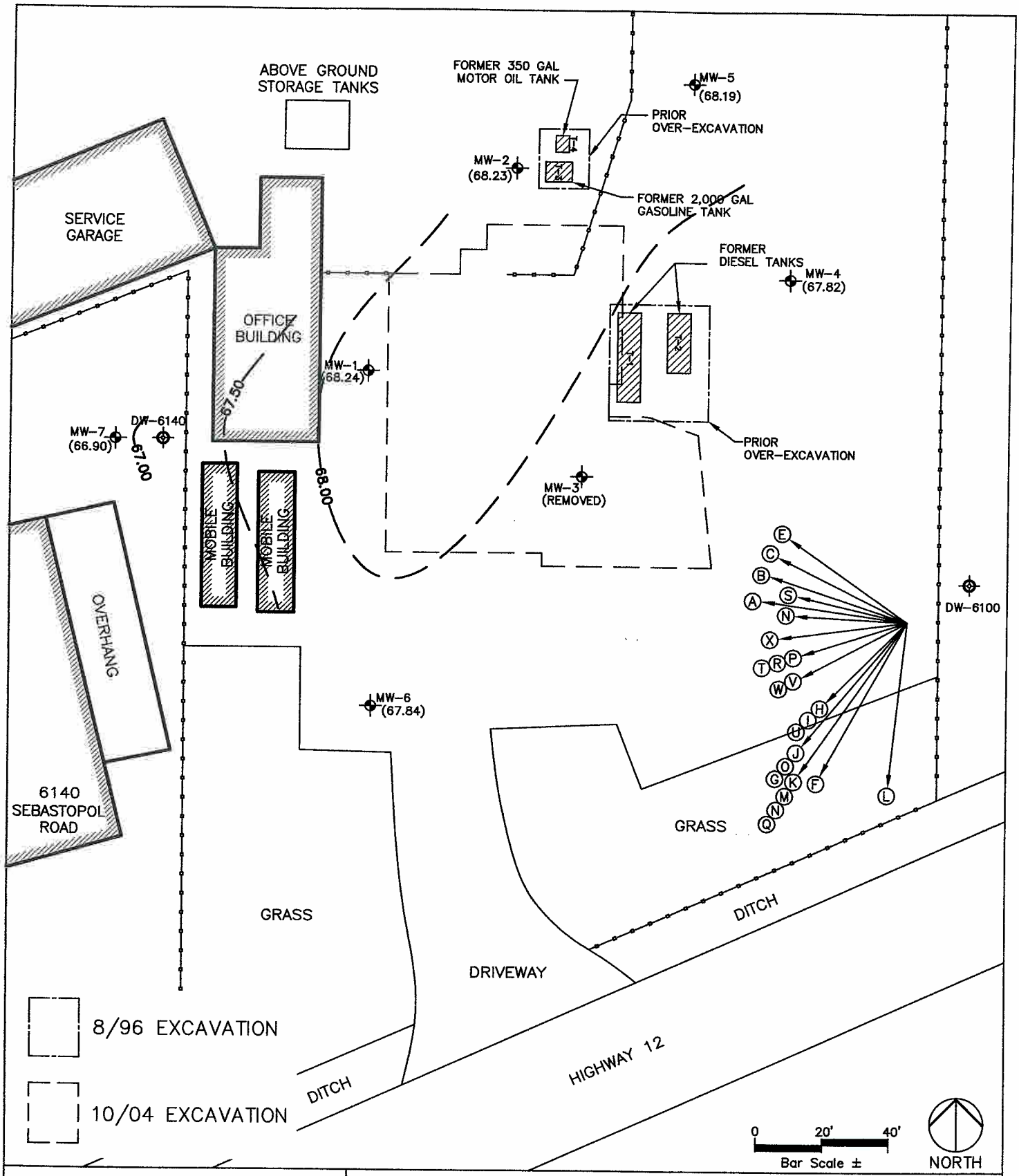
SITE LOCATION MAP

PIPELINE EXCAVATORS
5715 SEBASTOPOL ROAD
SEBASTOPOL, CALIFORNIA

PLATE: 1

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	1301.01 SLM	BCW	1301.01	A-228		12/23/03



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SITE PLAN/GROUNDWATER ELEVATION CONTOUR MAP FOR 6/27/05

PIPELINE EXCAVATORS
5715 SEBASTOPOL ROAD
SEBASTOPOL, CALIFORNIA

PLATE: 2

SHEET: 1 OF 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	1301.01 GWFP	BRH	1301.01	A-793		7/5/05

GROUNDWATER FLOW LEGEND

Estimated Groundwater Flow Direction → (A)

Gradient Contour (Interval = 0.5 ft) - - - - - -

Identifier Tag	Date	Est. Flow Direction	Gradient Slope
(A)	6/06/01	N82°E	I=0.023
(B)	7/23/01	N73°E	I=0.013
(C)	8/29/01	N65°E	I=0.01
(D)	9/13/01	NA	NA
(E)	10/24/01	N58°E	I=0.01
(F)	12/13/01	S30°W	I=0.002
(G)	1/23/01	S40°W	I=0.004
(H)	2/21/02	S45°W	I=0.006
(I)	3/13/02	S45°W	I=0.006
(J)	4/24/02	S40°W	I=0.005
(K)	5/20/02	S35°W	I=0.007
(L)	7/16/02	SOUTHERLY	I=0.008
(M)	9/06/02	S35°W	I=0.005
(N)	12/18/02	W/SW	I=VARIES
(O)	3/19/03	SOUTHWEST	I=0.01
(P)	7/09/03	WESTERLY	I=0.004
(Q)	9/16/03	W/SW	I=VARIES
(R)	12/02/03	WESTERLY	I=0.03
(S)	3/31/04	SW/NW	I=0.02
(T)	6/08/04	SOUTHWESTERLY	I=0.014
(U)	9/07/04	S45°W	I=0.005
(V)	12/09/04	SOUTHWESTERLY	I=0.007
(W)	3/31/05	SOUTHWESTERLY	I=0.008
(X)	6/27/05	SOUTHWESTERLY	I=0.02

Identifier Tag	Date	Est. Flow Direction	Gradient Slope

MW-1 Monitoring Well Location
[XX.XX] Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).

Domestic Well

Excavation Limits

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SITE PLAN/GROUNDWATER ELEVATION CONTOUR MAP FOR 6/27/05

PIPELINE EXCAVATORS
5715 SEBASTOPOL ROAD
SEBASTOPOL, CALIFORNIA

PLATE: 2

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
PSC	1301.01 GWFP	BRH	1301.01	A-793		7/5/05

SHEET: 2 OF 2

APPENDIX A

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		**Well Number:** MW-1
Project Location: 5715 Sebastopol Road Sebastopol, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 8.15 **Well Depth from TOC (AP):**
Date: June 27, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** Ø	
	Water Level from TOC: 2.59	**Time:** 12:22
Notes: HC ODOR	**Water Level pre-purge:** 2.59	**Time:** 1:34
	Well Type: ☒ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 0.89 gallons in one well volume
TD WL Dia. Inches

2.67 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1:35	1	6.71	23.4	-68		2081	L
1:36	2	6.66	23.2	-68		2046	L
1:37	3	6.66	22.7	-82		2063	L
1:38	4	6.64	22.4	-78		2274	L
1:40	5	6.61	22.0	-72		2776	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 2.66 **Time:** 2:20

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 2 **Soil:** Ø **Other:** Ø

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		**Well Number:** MW-2
Project Location: 5715 Sebastopol Road Sebastopol, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 8.09 **Well Depth from TOC (AP):**
Date: June 27, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** 0	
	Water Level from TOC: 2.73	**Time:** 12:19
Notes:	**Water Level pre-purge:** 2.72	**Time:** 1:20
	Well Type: ☐ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 0.86 gallons in one well volume
TD WL Dia. Inches

2.58 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1:22	1	6.96	22.4	125		2659	L
1:23	2	6.86	22.3	128		2676	L
1:24	3	6.85	22.1	128		2691	L
1:25	4	6.86	21.9	129		2693	L
1:26	5	6.87	21.7	130		2698	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 2.75 **Time:** 2:15

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 2 **Soil:** 0 **Other:** 0

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		**Well Number:** MW-4
Project Location: 5715 Sebastopol Road Sebastopol, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 10.40 **Well Depth from TOC (AP):**
Date: June 27, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:**	
	Water Level from TOC: 6.23	**Time:** 12:00
Notes:	**Water Level pre-purge:** 6.23	**Time:** 12:41
	Well Type: ☒ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 0.67 gallons in one well volume
TD WL Dia. Inches

2.00 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:45	0.1	6.85	20.7	56		1637	L
12:45	1	6.73	20.4	58		1760	L
12:46	2	6.74	20.1	59		1744	L
12:47	3	6.74	20.0	59		1750	L
12:48	4	6.74	20.0	59		1757	L
12:49	5	6.74	20.0	58		1761	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 6.25 **Time:** 1:55

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 2 Soil: 8 Other: 8

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		**Well Number:** MW-5
Project Location: 5715 Sebastopol Road Sebastopol, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** **Well Depth from TOC (AP):** 8.50
Date: June 27, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** 0	
	Water Level from TOC: 5.96	**Time:** 11:58
Notes: Attempted to re-develop large gravel @ bottom / unable to retrieve / bailed by hand w/ SS bailer	**Water Level pre-purge:** 5.95	**Time:** 12:24
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 0.41 gallons in one well volume
TD WL Dia. Inches

1.22 gallons in 3 well volumes (Approx. 0.6 gal/ft) 3 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:26	1	7.05	22.9	123		1984	H
12:28	2	7.03	22.9	101		1969	H
12:32	3	6.95	22.3	91		1825	M

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 6.21 **Time:** 1:50

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 2 **Soil:** 0 **Other:** 0

BRING DRUM

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		**Well Number:** MW-6
Project Location: 5715 Sebastopol Road Sebastopol, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 9.10 **Well Depth from TOC (AP):**
Date: June 27, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** Ø	
	Water Level from TOC: 2.32	**Time:** 12:02
Notes: slow to purge	**Water Level pre-purge:** 2.32	**Time:** 12:53
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.08 gallons in one well volume
TD WL Dia. Inches

3.25 gallons in 3 well volumes (Approx. 0.6 gal/ft) 5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:55	1	6.65	25.4	79		1466	L
12:56	2	6.59	24.3	24		1459	L
12:58	3	6.61	24.2	24		1727	L
1:00	4	6.62	24.3	19		1547	L
1:03	5	6.60	24.2	26		1474	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 2.35 **Time:** 2:01

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: **Water:** 2 **Soil:** Ø **Other:** Ø

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1301.01 Pipeline Excavators		**Well Number:** MW-7
Project Location: 5715 Sebastopol Road Sebastopol, California	**Casing Diameter:** 2"	**Well Depth from TOC (BP):** 9.20 **Well Depth from TOC (AP):**
Date: June 27, 2005	**Top of Screen:**	**Initial Well Depth:**
Sampled by (print and sign): Brian Hasik	**Product Thickness in inches:** 0	
	Water Level from TOC: 3.45	**Time:** 12:08
Notes:	**Water Level pre-purge:** 3.45	**Time:** 1:10
	Well Type: ☑ Monitor ☐ Extraction ☐ Other:	
	Well EL (TOC):	**Well Mat:** PVC

WEATHER

Wind: Yes / No **Rain:** Yes / No	**Clouds:** Yes / No **Fog:** Yes / No	**Sun:** Yes / No	**Precipitation in last 5 days:** Yes / No

VOLUME OF WATER TO BE REMOVER BEFORE SAMPLING

(_____ - _____) X (_____)2 X 0.0408 = 1.03 gallons in one well volume
TD WL Dia. Inches

3.10 gallons in 3 well volumes (Approx. 0.6 gal/ft) 4.5 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1:11	1	6.50	22.4	106		1650	L
1:12	2	6.25	21.8	113		1720	L
1:14	3	6.30	20.7	118		1845	L
1:16	4	6.35	20.0	122		1991	L
1:16	4.5	6.42	20.0	121		2069	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 3.48 **Time:** 2:10

Appearance of Sample:

Bailer: Disposable **Pump:** 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: 2 Soil: 0 Other: 0

APPENDIX B

Appendix B: Historical Groundwater Elevation and Gradient Data
Pipeline Excavators

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient (i)
06/06/01	MW-1	68.71	3.03	65.68	N 82° E i = 0.023
	MW-2	68.15	3.06	65.09	
	MW-3	68.92	3.85	65.07	
07/23/01	MW-1	68.71	4.22	64.49	N73°E i = 0.013
	MW-2	68.15	4.35	63.80	
	MW-3	68.92	5.12	63.80	
08/29/01	MW-1	68.71	5.03	63.68	N65°E i = 0.01
	MW-2	68.15	5.06	63.09	
	MW-3	68.92	5.72	63.20	
09/13/01	MW-1	68.71	5.21	63.50	NA
	MW-2	68.15	NA	NA	
	MW-3	68.92	5.90	63.02	
10/24/01	MW-1	68.71	5.55	63.16	N58°E i = 0.01
	MW-2	68.15	5.61	62.54	
	MW-3	68.92	6.16	62.76	
12/13/01	MW-1	68.81	2.76	66.05	S30°W i = 0.002
	MW-2	68.93	2.54	66.39	
	MW-3	69.31	3.18	66.13	
1/23/01	MW-1	68.81	2.24	66.57	S40°W i = 0.004
	MW-2	68.93	2.22	66.71	
	MW-3	69.31	2.76	66.55	

Appendix B: continued

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient (i)
2/21/02	MW-1	68.81	1.24	67.57	S45°W i = 0.006
	MW-2	68.93	1.16	67.77	
	MW-3	69.31	1.75	67.56	
	MW-4	72.04	4.09	67.95	
	MW-5	72.14	3.95	68.19	
	MW-6	68.16	1.05	67.11	
	MW-7	68.37	2.13	66.24	
03/13/02	MW-1	68.81	1.13	67.68	S45°W i = 0.006
	MW-2	68.93	1.18	67.75	
	MW-3	69.31	1.62	67.69	
	MW-4	72.04	4.03	68.01	
	MW-5	72.14	3.93	68.21	
	MW-6	68.16	0.96	67.20	
	MW-7	68.37	2.14	66.23	
04/24/02	MW-1	68.81	2.43	66.38	S40°W i = 0.005
	MW-2	68.93	2.46	66.47	
	MW-3	69.31	3.09	66.22	
	MW-4	72.04	5.73	66.31	
	MW-5	72.14	5.50	66.64	
	MW-6	68.16	2.31	65.85	
	MW-7	68.37	2.92	65.40	

Appendix B: continued

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient (i)
05/20/02	MW-1	68.81	2.71	66.10	S35°W i = 0.007
	MW-2	68.93	3.61	65.32	
	MW-3	69.31	3.41	65.90	
	MW-4	72.04	6.05	65.99	
	MW-5	72.14	5.82	66.32	
	MW-6	68.16	2.69	65.47	
	MW-7	68.37	3.34	65.03	
07/16/02	MW-1	68.81	3.65	65.16	Southerly i = 0.007
	MW-2	68.93	3.67	65.26	
	MW-3	69.31	4.42	64.89	
	MW-4	72.04	7.11	64.93	
	MW-5	72.14	6.86	65.28	
	MW-6	68.16	3.72	64.44	
	MW-7	68.37	4.34	64.03	
09/06/02	MW-1	68.81	4.36	64.45	S35°W i = 0.005
	MW-2	68.93	4.45	64.48	
	MW-3	69.31	4.98	64.33	
	MW-4	72.04	7.78	64.26	
	MW-5	72.14	7.60	64.54	
	MW-6	68.16	3.97	64.19	
	MW-7	68.37	5.52	62.85	

Appendix B: continued

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient (i)
12/18/02	MW-1	68.81	2.78	66.03	West / Southwest i = varies
	MW-2	68.93	2.56	66.37	
	MW-3	69.31	3.13	66.18	
	MW-4	72.04	5.31	66.73	
	MW-5	72.14	5.24	66.90	
	MW-6	68.16	2.11	66.05	
	MW-7	68.37	4.18	64.19	
03/19/03	MW-1	68.81	1.14	67.67	Southwest i = 0.01
	MW-2	68.93	1.16	67.77	
	MW-3	69.31	1.69	67.62	
	MW-4	72.04	4.11	67.93	
	MW-5	72.14	3.97	68.17	
	MW-6	68.16	1.06	67.10	
	MW-7	68.37	2.02	66.35	

Appendix B: continued

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient (i)
07/09/03	MW-1	68.81	3.23	65.58	Westerly i = 0.004
	MW-2	68.93	3.24	65.69	
	MW-3	69.31	4.03	65.28	
	MW-4	72.04	6.71	65.33	
	MW-5	72.14	6.45	65.69	
	MW-6	68.16	3.15	65.01	
	MW-7	68.37	3.77	64.60	
09/16/03	MW-1	68.81	4.24	64.57	West/Southwest i = varies
	MW-2	68.93	4.43	64.50	
	MW-3	69.31	5.02	64.29	
	MW-4	72.04	7.76	64.28	
	MW-5	72.14	7.52	64.62	
	MW-6	68.16	4.16	64.00	
	MW-7	68.37	5.13	63.24	
12/02/03	MW-1	68.81	3.61	65.20	Westerly i = 0.04
	MW-2	68.93	3.40	65.53	
	MW-3	69.31	4.12	65.19	
	MW-4	72.04	6.42	65.62	
	MW-5	72.14	6.25	65.89	
	MW-6	68.16	3.01	65.15	
	MW-7	68.37	5.06	63.31	

Appendix B: continued

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient, i (feet/foot)
3/31/04*	MW-1	70.83	1.40	69.43	Southwest to Northwest i = 0.02
	MW-2	70.95	1.47	69.48	
	MW-3	71.32	2.00	69.32	
	MW-4	74.05	4.49	69.56	
	MW-5	74.14	4.30	69.84	
	MW-6	70.16	0.45	69.71	
	MW-7	70.35	2.24	68.11	
* = wells were re-surveyed on February 24, 2004					
6/08/04	MW-1	70.83	3.50	67.33	Southwesterly i = 0.014
	MW-2	70.95	3.53	67.42	
	MW-3	71.32	4.28	67.04	
	MW-4	74.05	7.03	67.02	
	MW-5	74.14	6.75	67.39	
	MW-6	70.16	3.40	66.76	
	MW-7	70.35	4.13	66.22	
9/07/04	MW-1	70.83	5.22	65.61	S45°W i = 0.005
	MW-2	70.95	5.32	65.63	
	MW-3	71.32	5.96	65.36	
	MW-4	74.05	8.71	65.34	
	MW-5	74.14	8.55	65.59	
	MW-6	70.16	5.01	65.15	
	MW-7	70.35	6.22	65.13	

Appendix B: continued

Sample Date	Monitoring Well ID	TOC Elevation (feet - msl)	Water Level Depth (feet)	Water Level Elevation (feet -msl)	Groundwater Flow Direction/Gradient, i (feet/foot)
12/09/04	MW-1	70.83	4.20	66.63	Southwesterly i = 0.007
	MW-2	70.95	3.77	67.18	
	MW-3	----removed----			
	MW-4	74.05	6.54	67.51	
	MW-5	74.14	NA	NA	
	MW-6	70.16	3.60	66.56	
	MW-7	70.35	NA	NA	
03/31/05	MW-1	70.83	1.27	69.56	Southwesterly i = 0.008
	MW-2	70.95	1.35	69.60	
	MW-3	----removed----			
	MW-4	74.05	4.00	70.05	
	MW-5	74.14	3.95	70.19	
	MW-6	70.16	1.05	69.11	
	MW-7	70.35	2.15	68.20	
06/27/05	MW-1	70.83	2.59	68.24	Southwesterly i = 0.02
	MW-2	70.95	2.72	68.23	
	MW-3	----removed----			
	MW-4	74.05	6.23	67.82	
	MW-5	74.14	5.95	68.19	
	MW-6	70.16	2.32	67.84	
	MW-7	70.35	3.45	66.90	

APPENDIX C

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

13 July 2005

Trans Tech Consultants
Attn: Bill Wiggins
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
RE: Leland Smith/Pipeline Excavators
Work Order: A506696

Enclosed are the results of analyses for samples received by the laboratory on 06/28/05 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A506696-01	Water	06/27/05 14:20	06/28/05 16:10
MW-2	A506696-02	Water	06/27/05 14:15	06/28/05 16:10
MW-4	A506696-03	Water	06/27/05 13:55	06/28/05 16:10
MW-5	A506696-04	Water	06/27/05 13:50	06/28/05 16:10
MW-6	A506696-05	Water	06/27/05 14:00	06/28/05 16:10
MW-7	A506696-06	Water	06/27/05 14:10	06/28/05 16:10
DW-6100	A506696-07	Water	06/27/05 11:50	06/28/05 16:10
DW-6140	A506696-08	Water	06/27/05 12:05	06/28/05 16:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks
Project Manager

7/13/2005

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-1 (A506696-01)			**Sample Type: Water**			**Sampled: 06/27/05 14:20**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50512	07/05/05	07/05/05	0.9302	**190 ug/l**		**47**	D-07
TPH as Gasoline	8260GRO	AG50706	07/06/05	07/07/05	10	**1400 "**		**500**	
Surrogate: Tetratetracontane	*8015DRO*	*AG50512*	*07/05/05*	*07/05/05*		*72.4 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50706*	*07/06/05*	*07/07/05*		*97.2 %*	*70-129*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50511	07/01/05	07/02/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	**0.39 "**		**0.30**	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**40 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*87.6 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*128 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*82.0 %*	*74-137*		
MW-2 (A506696-02)			**Sample Type: Water**			**Sampled: 06/27/05 14:15**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50512	07/05/05	07/05/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50509	07/01/05	07/02/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AG50512*	*07/05/05*	*07/05/05*		*56.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50509*	*07/01/05*	*07/02/05*		*82.0 %*	*70-129*		

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Nena M. Burgess For Sheri L. Speaks
Project Manager

7/13/2005

Alpha Analytical Laboratories Inc.
208 Mason St. Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-2 (A506696-02)			**Sample Type: Water**			**Sampled: 06/27/05 14:15**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50511	"	07/02/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**31 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*80.0 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*140 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*82.0 %*	*74-137*		
MW-4 (A506696-03)			**Sample Type: Water**			**Sampled: 06/27/05 13:55**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50512	07/05/05	07/05/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50509	07/01/05	07/02/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AG50512*	*07/05/05*	*07/05/05*		*59.6 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50509*	*07/01/05*	*07/02/05*		*82.4 %*	*70-129*		

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Nena M. Burgess For Sheri L. Speaks
Project Manager

7/13/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-4 (A506696-03)			**Sample Type: Water**			**Sampled: 06/27/05 13:55**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50511	"	07/02/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**45 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*81.2 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*146 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*82.4 %*	*74-137*		
MW-5 (A506696-04)			**Sample Type: Water**			**Sampled: 06/27/05 13:50**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50512	07/05/05	07/06/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50509	07/01/05	07/02/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AG50512*	*07/05/05*	*07/06/05*		*77.6 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50509*	*07/01/05*	*07/02/05*		*80.4 %*	*70-129*		

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Nena M. Burgess For Sheri L. Speaks
Project Manager

7/13/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-5 (A506696-04)			**Sample Type: Water**			**Sampled: 06/27/05 13:50**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50511	"	07/02/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**15 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*78.4 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*156 %*	*85-129*		*S-GC*
Surrogate: Toluene-d8	"	"	"	"		*80.4 %*	*74-137*		
MW-6 (A506696-05)			**Sample Type: Water**			**Sampled: 06/27/05 14:00**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50704	07/06/05	07/07/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50509	07/01/05	07/02/05	"	**68 "**		**50**	
Surrogate: Tetratetracontane	*8015DRO*	*AG50704*	*07/06/05*	*07/07/05*		*47.2 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50509*	*07/01/05*	*07/02/05*		*75.2 %*	*70-129*		

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Nena M. Burgess For Sheri L. Speaks
Project Manager

7/13/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-6 (A506696-05)			**Sample Type: Water**			**Sampled: 06/27/05 14:00**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50712	07/06/05	07/07/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**8.9 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*96.8 %*	*45-147*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*102 %*	*85-129*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*102 %*	*74-137*		
MW-7 (A506696-06)			**Sample Type: Water**			**Sampled: 06/27/05 14:10**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50704	07/06/05	07/07/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50509	07/01/05	07/02/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AG50704*	*07/06/05*	*07/07/05*		*39.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50509*	*07/01/05*	*07/02/05*		*74.0 %*	*70-129*		

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Project ID: Leland Smith/Pipeline Excavators

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A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-7 (A506696-06)			**Sample Type: Water**			**Sampled: 06/27/05 14:10**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50712	07/06/05	07/07/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	**39 "**		**0.50**	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	**5.6 "**		**0.50**	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*94.8 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*105 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*102 %*	*74-137*		
DW-6100 (A506696-07)			**Sample Type: Water**			**Sampled: 06/27/05 11:50**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50704	07/06/05	07/07/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50706	07/06/05	07/07/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AG50704*	*07/06/05*	*07/07/05*		*47.2 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50706*	*07/06/05*	*07/07/05*		*102 %*	*70-129*		

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Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
DW-6100 (A506696-07)			**Sample Type: Water**			**Sampled: 06/27/05 11:50**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50712	"	07/07/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*94.4 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*108 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*102 %*	*74-137*		
DW-6140 (A506696-08)			**Sample Type: Water**			**Sampled: 06/27/05 12:05**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AG50704	07/06/05	07/07/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AG50706	07/06/05	07/07/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AG50704*	*07/06/05*	*07/07/05*		*44.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AG50706*	*07/06/05*	*07/07/05*		*102 %*	*70-129*		

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A506696	06/28/2005 16:10	TRANSTEC	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
DW-6140 (A506696-08)			**Sample Type: Water**			**Sampled: 06/27/05 12:05**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AG50712	"	07/07/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Methyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Di-isopropyl ether	"	"	"	"	"	ND "		0.50	
Ethyl tert-butyl ether	"	"	"	"	"	ND "		0.50	
Tert-amyl methyl ether	"	"	"	"	"	ND "		0.50	
Tert-butyl alcohol	"	"	"	"	"	ND "		10	
1,2-Dichloroethane	"	"	"	"	"	ND "		0.50	
Chlorobenzene	"	"	"	"	"	ND "		0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "		0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*94.8 %*	*45-147*		
Surrogate: Dibromofluoromethane	"	"	"	"		*104 %*	*85-129*		
Surrogate: Toluene-d8	"	"	"	"		*102 %*	*74-137*		

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50509 - EPA 5030 Water GCMS										
Blank (AG50509-BLK1)				Prepared & Analyzed: 07/01/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*26.1*		"	*25.0*		*104*	*70-129*			
LCS (AG50509-BS1)				Prepared & Analyzed: 07/01/05						
TPH as Gasoline	215	50	ug/l	200		108	65-137			
Surrogate: Toluene-d8	*24.6*		"	*25.0*		*98.4*	*70-129*			
LCS Dup (AG50509-BSD1)				Prepared & Analyzed: 07/01/05						
TPH as Gasoline	206	50	ug/l	200		103	65-137	4.28	20	
Surrogate: Toluene-d8	*24.5*		"	*25.0*		*98.0*	*70-129*			
Matrix Spike (AG50509-MS1)		**Source: A506696-05**		Prepared: 07/01/05 Analyzed: 07/02/05						
TPH as Gasoline	340	50	ug/l	200	68	136	65-137			
Surrogate: Toluene-d8	*24.1*		"	*25.0*		*96.4*	*70-129*			
Batch AG50512 - EPA 3510B Water										
Blank (AG50512-BLK1)				Prepared & Analyzed: 07/05/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: Tetratetracontane	*17.2*		"	*25.0*		*68.8*	*20-152*			
LCS (AG50512-BS1)				Prepared & Analyzed: 07/05/05						
TPH as Diesel	1420	50	ug/l	2000		71.0	52-136			
Surrogate: Tetratetracontane	*16.0*		"	*25.0*		*64.0*	*20-152*			
LCS Dup (AG50512-BSD1)				Prepared & Analyzed: 07/05/05						
TPH as Diesel	1300	50	ug/l	2000		65.0	52-136	8.82	25	

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TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50512 - EPA 3510B Water										
LCS Dup (AG50512-BSD1)				Prepared & Analyzed: 07/05/05						
Surrogate: Tetratetracontane	*14.3*		"	*25.0*		*57.2*	*20-152*			
Batch AG50704 - EPA 3510B Water										
Blank (AG50704-BLK1)				Prepared: 07/06/05 Analyzed: 07/07/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: Tetratetracontane	*9.10*		"	*25.0*		*36.4*	*20-152*			
LCS (AG50704-BS1)				Prepared: 07/06/05 Analyzed: 07/07/05						
TPH as Diesel	1410	50	ug/l	2000		70.5	52-136			
Surrogate: Tetratetracontane	*9.75*		"	*25.0*		*39.0*	*20-152*			
LCS Dup (AG50704-BSD1)				Prepared: 07/06/05 Analyzed: 07/07/05						
TPH as Diesel	1500	50	ug/l	2000		75.0	52-136	6.19	25	
Surrogate: Tetratetracontane	*11.8*		"	*25.0*		*47.2*	*20-152*			
Batch AG50706 - EPA 5030 Water GCMS										
Blank (AG50706-BLK1)				Prepared & Analyzed: 07/06/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*26.4*		"	*25.0*		*106*	*70-129*			
LCS (AG50706-BS1)				Prepared & Analyzed: 07/06/05						
TPH as Gasoline	186	50	ug/l	200		93.0	65-137			
Surrogate: Toluene-d8	*26.5*		"	*25.0*		*106*	*70-129*			

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TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50706 - EPA 5030 Water GCMS										
LCS Dup (AG50706-BSD1)				Prepared & Analyzed: 07/06/05						
TPH as Gasoline	181	50	ug/l	200		90.5	65-137	2.72	20	
Surrogate: Toluene-d8	*26.5*		"	*25.0*		*106*	*70-129*			
Matrix Spike (AG50706-MS1)		**Source: A507009-01**		Prepared & Analyzed: 07/06/05						
TPH as Gasoline	86.5	50	ug/l	200	ND	37.8	65-137			QM-05
Surrogate: Toluene-d8	*23.5*		"	*25.0*		*94.0*	*70-129*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50511 - EPA 5030 Water GCMS										
Blank (AG50511-BLK1)				Prepared & Analyzed: 07/01/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	*25.8*		"	*25.0*		*103*	*45-147*			
Surrogate: Dibromofluoromethane	*20.8*		"	*25.0*		*83.2*	*85-129*			*S-GC*
Surrogate: Toluene-d8	*26.1*		"	*25.0*		*104*	*74-137*			
LCS (AG50511-BS1)				Prepared & Analyzed: 07/01/05						
Benzene	11.6	0.30	ug/l	10.0		116	79-116			
Toluene	11.3	0.30	"	10.0		113	83-120			
Ethylbenzene	11.3	0.50	"	10.0		113	81-119			
Xylenes (total)	33.4	0.50	"	30.0		111	79-121			
Methyl tert-butyl ether	9.96	0.50	"	10.0		99.6	73-127			
Di-isopropyl ether	11.5	0.50	"	10.1		114	69-96			QL-03
Ethyl tert-butyl ether	11.7	0.50	"	10.2		115	76-117			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50511 - EPA 5030 Water GCMS										
LCS (AG50511-BS1)				Prepared & Analyzed: 07/01/05						
Tert-amyl methyl ether	10.4	0.50	"	10.3		101	80-122			
Tert-butyl alcohol	212	10	"	196		108	53-132			
1,2-Dichloroethane	10.9	0.50	"	10.0		109	78-115			
Chlorobenzene	10.2	0.50	"	10.0		102	82-112			
1,3-Dichlorobenzene	9.75	0.50	"	10.0		97.5	82-117			
1,4-Dichlorobenzene	10.6	0.50	"	10.0		106	85-113			
1,2-Dichlorobenzene	10.4	0.50	"	10.0		104	83-113			
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	84-117			
Surrogate: Bromofluorobenzene	*23.8*		"	*25.0*		*95.2*	*45-147*			
Surrogate: Dibromofluoromethane	*21.6*		"	*25.0*		*86.4*	*85-129*			
Surrogate: Toluene-d8	*23.3*		"	*25.0*		*93.2*	*74-137*			
LCS Dup (AG50511-BSD1)				Prepared & Analyzed: 07/01/05						
Benzene	11.8	0.30	ug/l	10.0		118	79-116	1.71	25	QL-03
Toluene	11.4	0.30	"	10.0		114	83-120	0.881	25	
Ethylbenzene	11.5	0.50	"	10.0		115	81-119	1.75	25	
Xylenes (total)	34.2	0.50	"	30.0		114	79-121	2.37	25	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	73-127	2.38	25	
Di-isopropyl ether	11.7	0.50	"	10.1		116	69-96	1.72	25	QL-03
Ethyl tert-butyl ether	12.3	0.50	"	10.2		121	76-117	5.00	25	QL-03
Tert-amyl methyl ether	10.7	0.50	"	10.3		104	80-122	2.84	25	
Tert-butyl alcohol	214	10	"	196		109	53-132	0.939	25	
1,2-Dichloroethane	11.0	0.50	"	10.0		110	78-115	0.913	25	
Chlorobenzene	10.3	0.50	"	10.0		103	82-112	0.976	25	
1,3-Dichlorobenzene	9.93	0.50	"	10.0		99.3	82-117	1.83	25	
1,4-Dichlorobenzene	10.7	0.50	"	10.0		107	85-113	0.939	25	
1,2-Dichlorobenzene	10.5	0.50	"	10.0		105	83-113	0.957	25	

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Nena M. Burgess For Sheri L. Speaks
Project Manager

7/13/2005

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CHEMICAL EXAMINATION REPORT

Trans Tech Consultants
930 Shiloh Rd., Bldg.44, Suite J
Windsor, CA 95492
Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50511 - EPA 5030 Water GCMS										
LCS Dup (AG50511-BSD1)				Prepared & Analyzed: 07/01/05						
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	84-117	0.00	25	
Surrogate: Bromofluorobenzene	*23.9*		"	*25.0*		*95.6*	*45-147*			
Surrogate: Dibromofluoromethane	*21.5*		"	*25.0*		*86.0*	*85-129*			
Surrogate: Toluene-d8	*23.2*		"	*25.0*		*92.8*	*74-137*			
Matrix Spike (AG50511-MS1)		**Source: A506623-01**		Prepared & Analyzed: 07/01/05						
Benzene	12.3	0.30	ug/l	10.0	ND	123	63-144			
Toluene	11.5	0.30	"	10.0	ND	115	65-145			
Ethylbenzene	11.2	0.50	"	10.0	ND	112	57-155			
Xylenes (total)	33.2	0.50	"	30.0	ND	111	59-149			
Methyl tert-butyl ether	9.95	0.50	"	10.0	ND	99.5	62-156			
Di-isopropyl ether	12.0	0.50	"	10.1	ND	119	58-115			QM-05
Ethyl tert-butyl ether	12.5	0.50	"	10.2	ND	123	57-147			
Tert-amyl methyl ether	10.8	0.50	"	10.3	ND	105	53-153			
Tert-butyl alcohol	209	10	"	196	ND	107	41-147			
1,2-Dichloroethane	11.3	0.50	"	10.0	ND	113	61-134			
Chlorobenzene	10.1	0.50	"	10.0	ND	101	62-139			
1,3-Dichlorobenzene	9.15	0.50	"	10.0	ND	91.5	59-140			
1,4-Dichlorobenzene	9.99	0.50	"	10.0	ND	99.9	62-136			
1,2-Dichlorobenzene	10.1	0.50	"	10.0	ND	101	62-137			
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0	ND	108	58-140			
Surrogate: Bromofluorobenzene	*23.6*		"	*25.0*		*94.4*	*45-147*			
Surrogate: Dibromofluoromethane	*22.2*		"	*25.0*		*88.8*	*85-129*			
Surrogate: Toluene-d8	*22.9*		"	*25.0*		*91.6*	*74-137*			
Batch AG50712 - EPA 5030 Water GCMS										

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50712 - EPA 5030 Water GCMS										
Blank (AG50712-BLK1)				Prepared & Analyzed: 07/06/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	"							
1,2-Dichloroethane	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Surrogate: Bromofluorobenzene	*25.3*		"	*25.0*		*101*	*45-147*			
Surrogate: Dibromofluoromethane	*22.5*		"	*25.0*		*90.0*	*85-129*			
Surrogate: Toluene-d8	*26.4*		"	*25.0*		*106*	*74-137*			
LCS (AG50712-BS1)				Prepared & Analyzed: 07/06/05						
Benzene	11.4	0.30	ug/l	10.0		114	79-116			
Toluene	11.5	0.30	"	10.0		115	83-120			
Ethylbenzene	11.4	0.50	"	10.0		114	81-119			
Xylenes (total)	35.9	0.50	"	30.0		120	79-121			
Methyl tert-butyl ether	10.0	0.50	"	10.0		100	73-127			
Di-isopropyl ether	10.2	0.50	"	10.1		101	69-96			QL-03
Ethyl tert-butyl ether	9.96	0.50	"	10.2		97.6	76-117			

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Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50712 - EPA 5030 Water GCMS										
LCS (AG50712-BS1)				Prepared & Analyzed: 07/06/05						
Tert-amyl methyl ether	9.73	0.50	"	10.3		94.5	80-122			
Tert-butyl alcohol	206	10	"	196		105	53-132			
1,2-Dichloroethane	10.8	0.50	"	10.0		108	78-115			
Chlorobenzene	10.3	0.50	"	10.0		103	82-112			
1,3-Dichlorobenzene	10.8	0.50	"	10.0		108	82-117			
1,4-Dichlorobenzene	10.4	0.50	"	10.0		104	85-113			
1,2-Dichlorobenzene	10.5	0.50	"	10.0		105	83-113			
1,2-Dibromoethane (EDB)	10.8	0.50	"	10.0		108	84-117			
Surrogate: Bromofluorobenzene	*24.2*		"	*25.0*		*96.8*	*45-147*			
Surrogate: Dibromofluoromethane	*22.4*		"	*25.0*		*89.6*	*85-129*			
Surrogate: Toluene-d8	*24.1*		"	*25.0*		*96.4*	*74-137*			
LCS Dup (AG50712-BSD1)				Prepared & Analyzed: 07/06/05						
Benzene	11.6	0.30	ug/l	10.0		116	79-116	1.74	25	
Toluene	11.4	0.30	"	10.0		114	83-120	0.873	25	
Ethylbenzene	11.6	0.50	"	10.0		116	81-119	1.74	25	
Xylenes (total)	36.2	0.50	"	30.0		121	79-121	0.832	25	
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	73-127	2.96	25	
Di-isopropyl ether	10.4	0.50	"	10.1		103	69-96	1.94	25	QL-03
Ethyl tert-butyl ether	10.2	0.50	"	10.2		100	76-117	2.38	25	
Tert-amyl methyl ether	10.0	0.50	"	10.3		97.1	80-122	2.74	25	
Tert-butyl alcohol	239	10	"	196		122	53-132	14.8	25	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	78-115	0.00	25	
Chlorobenzene	10.4	0.50	"	10.0		104	82-112	0.966	25	
1,3-Dichlorobenzene	10.8	0.50	"	10.0		108	82-117	0.00	25	
1,4-Dichlorobenzene	10.5	0.50	"	10.0		105	85-113	0.957	25	
1,2-Dichlorobenzene	10.7	0.50	"	10.0		107	83-113	1.89	25	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG50712 - EPA 5030 Water GCMS										
LCS Dup (AG50712-BSD1)				Prepared & Analyzed: 07/06/05						
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	84-117	3.64	25	
Surrogate: Bromofluorobenzene	*23.8*		"	*25.0*		*95.2*	*45-147*			
Surrogate: Dibromofluoromethane	*21.8*		"	*25.0*		*87.2*	*85-129*			
Surrogate: Toluene-d8	*23.8*		"	*25.0*		*95.2*	*74-137*			
Matrix Spike (AG50712-MS1)		**Source: A506655-02**		Prepared & Analyzed: 07/06/05						
Benzene	13.1	0.30	ug/l	10.0	ND	131	63-144			
Toluene	12.6	0.30	"	10.0	ND	126	65-145			
Ethylbenzene	12.5	0.50	"	10.0	ND	125	57-155			
Xylenes (total)	38.8	0.50	"	30.0	ND	129	59-149			
Methyl tert-butyl ether	10.9	0.50	"	10.0	ND	109	62-156			
Di-isopropyl ether	11.6	0.50	"	10.1	ND	115	58-115			
Ethyl tert-butyl ether	11.1	0.50	"	10.2	ND	109	57-147			
Tert-amyl methyl ether	10.9	0.50	"	10.3	ND	106	53-153			
Tert-butyl alcohol	243	10	"	196	ND	124	41-147			
1,2-Dichloroethane	12.1	0.50	"	10.0	ND	121	61-134			
Chlorobenzene	11.1	0.50	"	10.0	ND	111	62-139			
1,3-Dichlorobenzene	11.0	0.50	"	10.0	ND	110	59-140			
1,4-Dichlorobenzene	10.9	0.50	"	10.0	ND	109	62-136			
1,2-Dichlorobenzene	11.4	0.50	"	10.0	ND	114	62-137			
1,2-Dibromoethane (EDB)	12.1	0.50	"	10.0	ND	121	58-140			
Surrogate: Bromofluorobenzene	*23.6*		"	*25.0*		*94.4*	*45-147*			
Surrogate: Dibromofluoromethane	*21.4*		"	*25.0*		*85.6*	*85-129*			
Surrogate: Toluene-d8	*23.4*		"	*25.0*		*93.6*	*74-137*			

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Project Manager

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CHEMICAL EXAMINATION REPORT

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Attn: Bill Wiggins

Report Date: 07/13/05 14:57
Project No: 1301.01
Project ID: Leland Smith/Pipeline Excavators

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A506696	06/28/2005 16:10	TRANSTEC	

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QL-03	Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
D-07	Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

WORK ORDER
CHAIN OF CUSTODY RECORD

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, CA 95482 • (707) 468-0401 • FAX (707) 468-5267

DATE 6/27/05 PAGE 1 OF 1

CLIENT'S NAME: Leland Smith	PROJECT MANAGER: Bill Wiggins
STREET ADDRESS: 5715 Sebastopol Rd. CITY: Sebastopol STATE: CA ZIP:	PHONE NUMBER:
PROJECT NAME: Pipeline Excavators	FAX NUMBER:
CONTRACT/PURCHASE ORDER/QUOTE NUMBER: 1301-01	SITE CONTACT:
SIGNATURE OF PERSON AUTHORIZING WORK UNDER TERMS STATED ON REVERSE SIDE OF THIS FORM. [signature]	SAMPLED BY: Brian Hasik

SAMPLE CONDITION ON RECEIPT:

COLD/ICED? _____

BUBBLES OR AIR SPACE? _____

WERE SAMPLES PRESERVED? _____

ANALYSES: TPH-gas, TPH & diesel, BTEX 5 oxy, PL scan

SAMPLE NUMBER/IDENTIFICATION	DATE	TIME	LAB SAMPLE NUMBER	SAMPLE TYPE: LIQ	AIR	SOLID	COMP	GRAB	NO. OF CONTS.	TPH-gas	TPH & diesel	BTEX 5 oxy	PL scan			EXPLAIN IRREGULARITIES BELOW
MW-1	6/27	2:20	A5066961	X				X	5	X	X	X	X			
MW-2		2:15	2	X				X	5	X	X	X	X			
MW-4		1:55	3	X				X	5	X	X	X	X			
MW-5		1:50	4	X				X	5	X	X	X	X			
MW-6		2:00	5	X				X	5	X	X	X	X			
MW-7		2:10	6	X				X	5	X	X	X	X			
DW-6100	6/27	11:50	7	X				X	5	X	X	X	X			
DW-6140	6/27	12:05	8	X				X	5	X	X	X	X			Geotracker T0609700457

RELINQUISHED BY: (SIGNATURE) [signature]	RECEIVED BY: (SIGNATURE) [signature]	DATE 6-28-05	TIME 1500
RELINQUISHED BY: (SIGNATURE) [signature] (1610)	RECEIVED BY: (SIGNATURE) [signature]	DATE 6/28/05	TIME 16:10
RELINQUISHED BY: (SIGNATURE)	RECEIVED FOR LABORATORY BY:	SAMPLE CONTROL OFFICER	
METHOD OF SHIPMENT	AUTHORIZED BY:		
SPECIAL INSTRUCTIONS			
DRIVING TIME	SITE TIME	TOTAL TIME	

TURN AROUND TIME REQUESTED: STANDARD

SAMPLE DESPOSITION:

1. STORAGE TIME REQUESTED _____ DAYS (SAMPLES WILL BE STORED FOR 30 DAYS WITHOUT ADDITIONAL CHARGES: THEREAFTER STORAGE CHARGES WILL BE BILLED AT THE PUBLISHED RATES.)
2. SAMPLE TO BE RETURNED TO CLIENT? ☐ YES ☐ NO

HAZARDOUS MATERIALS ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR PROPER DISPOSAL OF HAZARDOUS WASTES. CLIENTS NOT PICKING UP HAZARDOUS WASTES MAY BE ASSESSED AN APPROPRIATE FEE.

APPENDIX D

Appendix D: Historical Groundwater Analytical Results

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
09/18/00	MW-1	**4,500**	**2,200***	NA	<5.0	<5.0	<5.0	<15	**230**
	MW-2	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	**26**
	MW-3	**69,000**	**35,000***	NA	**8,400**	**20,000**	**1,500**	**6,500**	**500**
06/06/01	MW-1	**1,800**	**360***	NA	<1.0	<1.0	**7.4**	<1.0	**180**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**43**
	MW-3	**73,000**	**2,300***	NA	**12,000**	**34,000**	**1,900**	**8,600**	**480**
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
06/07/01	DW-6140	<50	<50	NA	<1.0	<5.0	<5.0	<5.0	**52**
09/13/01	MW-1	**2,000**	**610***	NA	<2.0	<2.0	**3.9**	**2.9**	**96**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**10**
	MW-3	**55,000**	**2,400***	NA	**8,300**	**18,000**	**1,000**	**3,800**	**1,100**
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**22**
12/13/01	MW-1	**3,700**	**1,600***	NA	**59**	**120**	**31**	**59**	**130**
	MW-2	**120**	**<50**	NA	**9.3**	**33**	**3.1**	**13**	**14**
	MW-3	**71,000**	**2,500***	NA	**11,000**	**19,000**	**1,400**	**6,000**	**260**
	DW-6100	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	<1.0
	DW-6140	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	**15**

* = Higher boiling point constituents of gasoline are present.

Appendix D: continued

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
02/21/02	MW-1	**3,700**	**1,300***	<100	**8.5**	**38**	**16**	**13**	**200**
	MW-2	**69**	<50	<100	**2.4**	**14**	**1.1**	**5.1**	**29**
	MW-3	**130,000**	**2,300***	<1,000	**9,200**	**21,000**	**1,800**	**6,900**	**430**
	MW-4	<50	<50	<100	<0.30	<0.30	<0.50	<0.50	**5.0**
	MW-5	<50	<50	<100	<0.30	<0.30	<0.50	<0.50	**45**
	MW-6	**140**	**63**	<100	<0.30	**3.0**	<0.50	<0.50	**120****
	MW-7	<50	<50	<100	**1.2**	**7.6**	**0.70**	**3.5**	**2.9*****
05/20/02	MW-1	**3,300**	**1,200***	NA	<30	<30	<50	<50	**210**
	MW-2	<50	<50	NA	<0.30	<0.30	<0.50	<0.50	**21**
	MW-3	**150,000**	**4,800***	NA	**9,500**	**27,000**	**1,900**	**7,900**	**370*****
	MW-4	<50	**54**	NA	<0.30	<0.30	<0.50	<0.50	**4.0**
	MW-5	<50	<50	NA	<0.30	<0.30	<0.50	<0.50	**68**
	MW-6	**84**	**55**	NA	<0.30	<0.30	<0.50	<0.50	**49**
	MW-7	<50	<50	NA	<0.30	<0.30	<0.50	<0.50	**37*****
	DW-6140	<50	<50	<50	<0.30	<0.30	<0.50	<0.50	**18**
09/06/02	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
09/06/02	MW-1	**3,500**	**1,000***	NA	<2.0	<2.0	**2.9**	<2.0	**130**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**16**
	MW-3	**85,000**	**6,600***	**NA**	**8,500**	**21,000**	**1,500**	**6,400**	**340**
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**34**
	MW-5	**65**	<50	NA	<1.0	<1.0	<1.0	<1.0	**65**
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**11**
	MW-7	<50	<50	**NA**	**1.5**	**4.3**	<1.0	**4.3**	**5.7**

* = Higher boiling point constituents of gasoline are present.
** = Additional oxygenated fuel additives detected (see laboratory reports).
*** = 1,2-Dichloroethane (a lead scaveger) detected (see laboratory reports).

Appendix D: continued

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
12/18/02	MW-1	**3,500**	**970***	NA	<2.0	<2.0	<2.0	<2.0	**150**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**23**
	MW-3	**69,000**	**6,500***	NA	**11,000**	**17,000**	**1,100**	**4,700**	**310**
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**34**
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**56**
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**10**
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**6.8****
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
03/19/03	MW-1	**3,400**	**1,700***	NA	<2.0	<2.0	**3.5**	<2.0	**180**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**21**
	MW-3	**59,000**	**12,000***	NA	**10,000**	**19,000**	**1,400**	**5,500**	**450**
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**5.1**
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**23**
	MW-6	**61**	<50	NA	<1.0	<1.0	<1.0	<1.0	**19**
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**12****
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
03/20/03	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0

* = Higher boiling point constituents of gasoline are present.
** = 1,2-Dichloroethane (a lead scaveger) detected (see laboratory reports).

Appendix D: continued

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	TPH-motor oil	B	T	E	X	MtBE
		µg/L							
07/09/03	MW-1	**1,900**	**1,000***	NA	<2.0	<2.0	<2.0	<2.0	**99**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**17**
	MW-3	**49,000**	**12,000***	NA	**9,300**	**23,000**	**1,400**	**6,100**	**230****
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**3.7**
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**22**
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**9.4**
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**10****
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**4.0**
07/25/03	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0
09/18/03	MW-1	**2,200**	**1,100***	NA	<2.0	<2.0	<2.0	<2.0	**140**
	MW-2	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**14**
	MW-3	**55,000**	**6,800***	NA	**9,400**	**22,000**	**1,500**	**6,400**	**270****
	MW-4	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**17**
	MW-5	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**31**
	MW-6	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**4.8**
	MW-7	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**4.1****
	DW-6140	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	**17**
	DW-6100	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0

* = Higher boiling point constituents of gasoline are present.
** = 1,2-Dichloroethane (a lead scaveger) detected (see laboratory reports).

Appendix D: continued

Sample Date	Sample ID	TPH-gasoline	TPH-diesel	B	T	E	X	MtBE
		µg/L						
12/02/03	MW-1	**2,000**	**800***	<2.0	<2.0	<2.0	<2.0	**130**
	MW-2	<50	<50	<1.0	<1.0	<1.0	<1.0	**12**
	MW-3	**75,000**	**6,100***	**8,100**	**15,000**	**1,500**	**6,500**	**300****
	MW-4	<50	<50	<1.0	<1.0	<1.0	<1.0	**30**
	MW-5	<50	<50	<1.0	<1.0	<1.0	<1.0	**28**
	MW-6	<50	<50	<1.0	<1.0	<1.0	<1.0	**4.5**
	MW-7	<50	<50	<1.0	<1.0	<1.0	<1.0	**3.5*****
	DW-6140	<50	<50	<1.0	<1.0	<1.0	<1.0	**4.8**
	DW-6100	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0
3/31/04	MW-1	**3,600**	**890**	<6.0	<6.0	<10	<10	**140**
	MW-2	<50	<50	<1.5	<1.5	<2.5	<2.5	**19**
	MW-3	**68,000**	**7,400**	**8,600**	**19,000**	**3000**	**11,000**	**390**
	MW-4	<50	<50	<0.6	**0.68**	<1.0	<1.0	**2.6**
	MW-5	<50	<50	<0.6	<0.6	<1.0	<1.0	**19**
	MW-6	<50	**54**	**0.96**	**3.5**	<1.0	<1.0	**16**
	MW-7	<50	<50	<0.3	<0.3	<0.5	<0.5	**9.8**
	DW-6140	<50	<50	<0.3	<0.3	<0.5	<0.5	**0.53**
	DW-6100	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5

< = Less than the laboratory test method detection limit.
* = Higher boiling components of gasoline are present in the early boiling range for diesel.
** = 1,2-Dichloroethane was detected at **130**µg/L.
*** = 1,2-Dichloroethane was detected at **5.9** µg/L.

Appendix D: continued

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
6/08/04	MW-1	**1,700**	**570**	<3.0	<3.0	<5.0	<5.0	**110**
	MW-2	<50	<50	<0.60	<0.60	<1.0	<1.0	**13**
	MW-3	**160,000**	**5,800**	**10,000**	**22,000**	**1,400**	**6,500**	<500**
	MW-4	<50	<50	<1.5	<1.5	<2.5	<2.5	**11**
	MW-5	<50	<50	<1.5	<1.5	<2.5	<2.5	**20**
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	**7.4**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	**5.4**
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	**7.9**
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Less than the laboratory test method detection limit.
** = Elevated detection limit to account for matrix interference.

9/07/04	MW-1	**2,300**	**370***	<3.0	<3.0	<5.0	<5.0	**100**
	MW-2	<50	<50	<0.60	<0.60	<1.0	<1.0	**8.6**
	MW-3	**140,000**	**5,300***	**13,000**	**28,000**	**1,800**	**7,300**	**320**
	MW-4	<50	**89**	<0.30	<0.30	<0.50	<0.50	**220**
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	**19**
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	**2.6**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	**8.4 +**
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	**7.1**
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Less than the laboratory test method detection limit.
+ = 1,2-Dichloroethane (a lead scavenger) was detected at 3.5 µg/L.
* = Results in the diesel organics range are primarily due to overlap from a gasoline range product.
** = Elevated detection limit to account for matrix interference.

Appendix D: continued

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
12/09/04	MW-1**	**2,000**	**220***	<1.5	<1.5	<2.5	<2.5	**86**
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**9.9**
	MW-3	----removed----						
	MW-4***	<250	<50	<1.5	<1.5	<2.5	<2.5	**86**
	MW-5	NS	NS	NS	NS	NS	NS	NS
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	**2.7**
	MW-7	NS	NS	NS	NS	NS	NS	NS
	DW-6140	NS	NS	NS	NS	NS	NS	NS
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

NS = not sampled.
< = less than the laboratory test method detection limit.
* = results in the diesel organics range are primarily due to overlap from a gasoline range product.
** = elevated detection limit to account for matrix interference.
*** = the reporting limits are elevated due to sample foaming.

03/31/05	MW-1***	**2,300**	**860***	<6.0	<6.0	<10	<10	**89**
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**34**
	MW-3	----removed----						
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	**8.2**
	MW-5***	<1,000	<50	<6.0	<6.0	<10	<10	<10
	MW-6	<50	<50	<0.30	<0.30	<0.50	<0.50	**8.8**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	**32**[+]
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	**0.58**

NS = Not sampled.
< = Less than the laboratory test method detection limit.
+ = 1,2-Dichloroethane detected at 5.0 µg/L.
* = Results in the diesel organics range are primarily due to overlap from a gasoline range product.
** = Elevated detection limit to account for matrix interference.
*** = The reporting limits are elevated due to sample foaming.

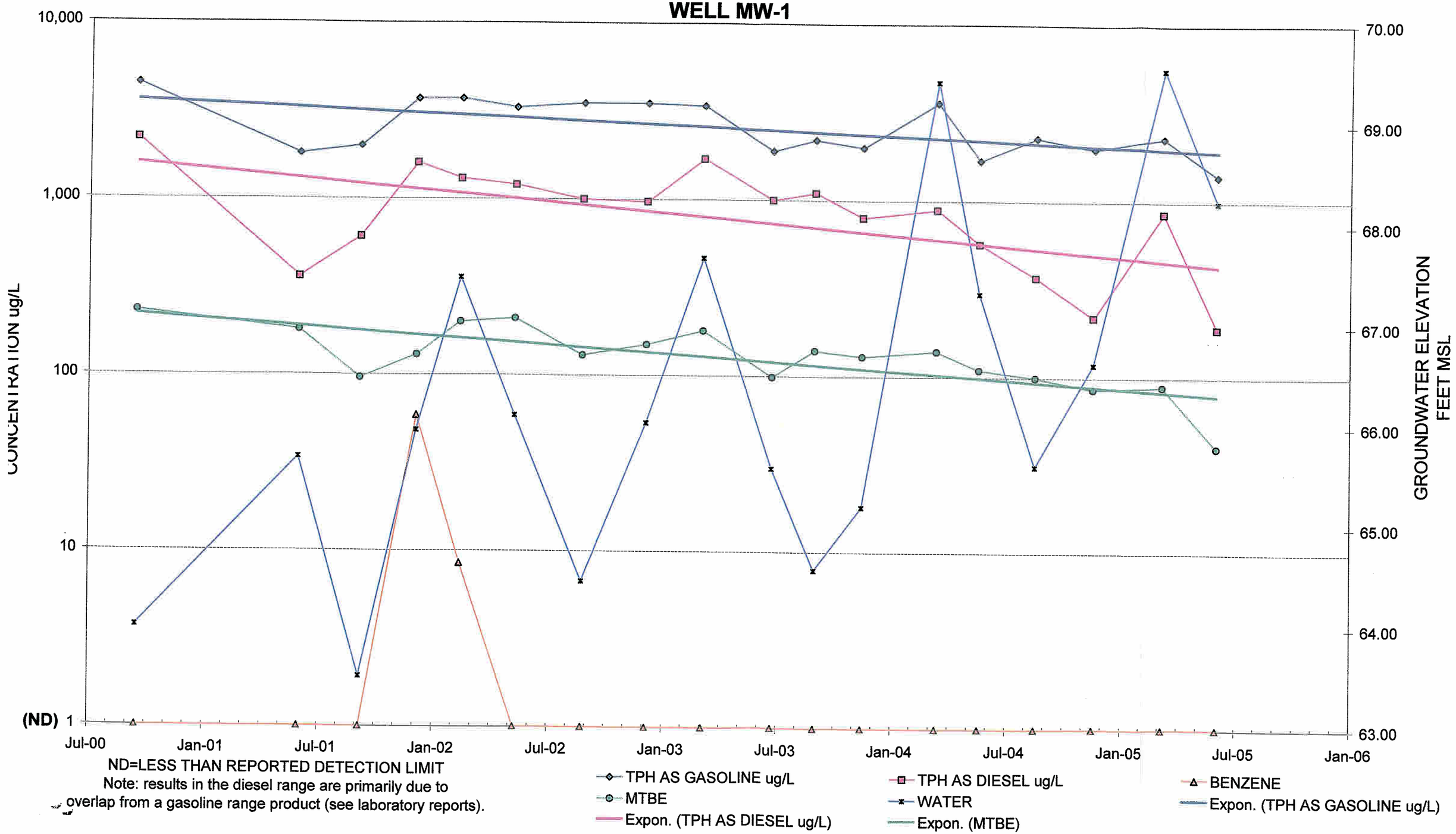
Appendix D: continued

Sample Date	Sample ID	TPH- g	TPH- d	B	T	E	X	MtBE
		µg/L						
06/27/05	MW-1	**1,400**	**190***	<0.30	**0.39**	<0.50	<0.50	**40**
	MW-2	<50	<50	<0.30	<0.30	<0.50	<0.50	**31**
	MW-3	----removed----						
	MW-4	<50	<50	<0.30	<0.30	<0.50	<0.50	**45**
	MW-5	<50	<50	<0.30	<0.30	<0.50	<0.50	**15**
	MW-6	**68**	<50	<0.30	<0.30	<0.50	<0.50	**8.9**
	MW-7	<50	<50	<0.30	<0.30	<0.50	<0.50	**39**[+]
	DW-6100	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	DW-6140	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50

< = Less than the laboratory test method detection limit.
+ = 1,2-Dichloroethane detected at 5.6 µg/L.
* = Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.

APPENDIX E

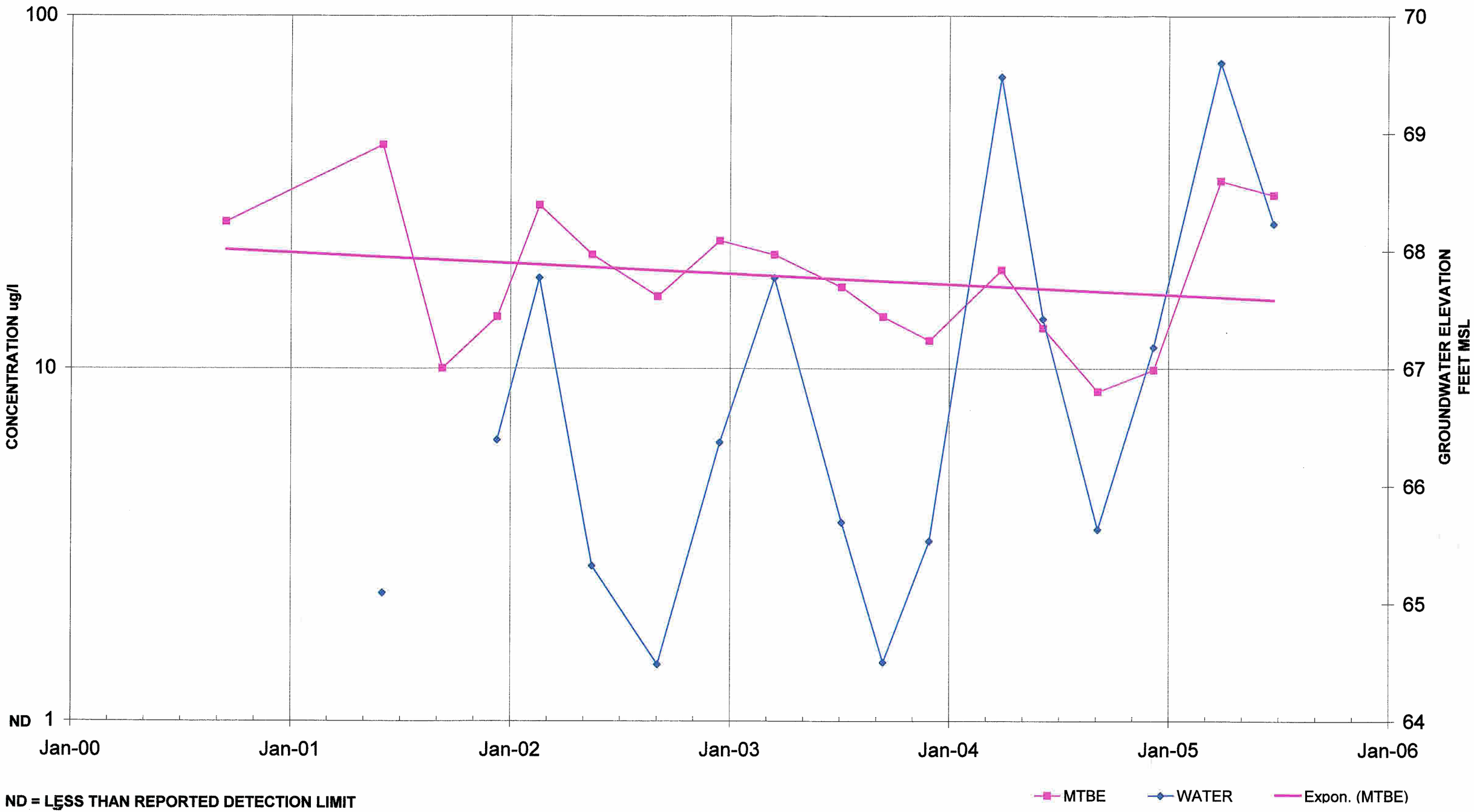
TIME vs. CONCENTRATION GRAPH
PIPELINE EXCAVATORS 5715 SEBASTOPOPL ROAD, SEBASTOPOL
TTC Job No. 1301.01
WELL MW-1



ND=LESS THAN REPORTED DETECTION LIMIT

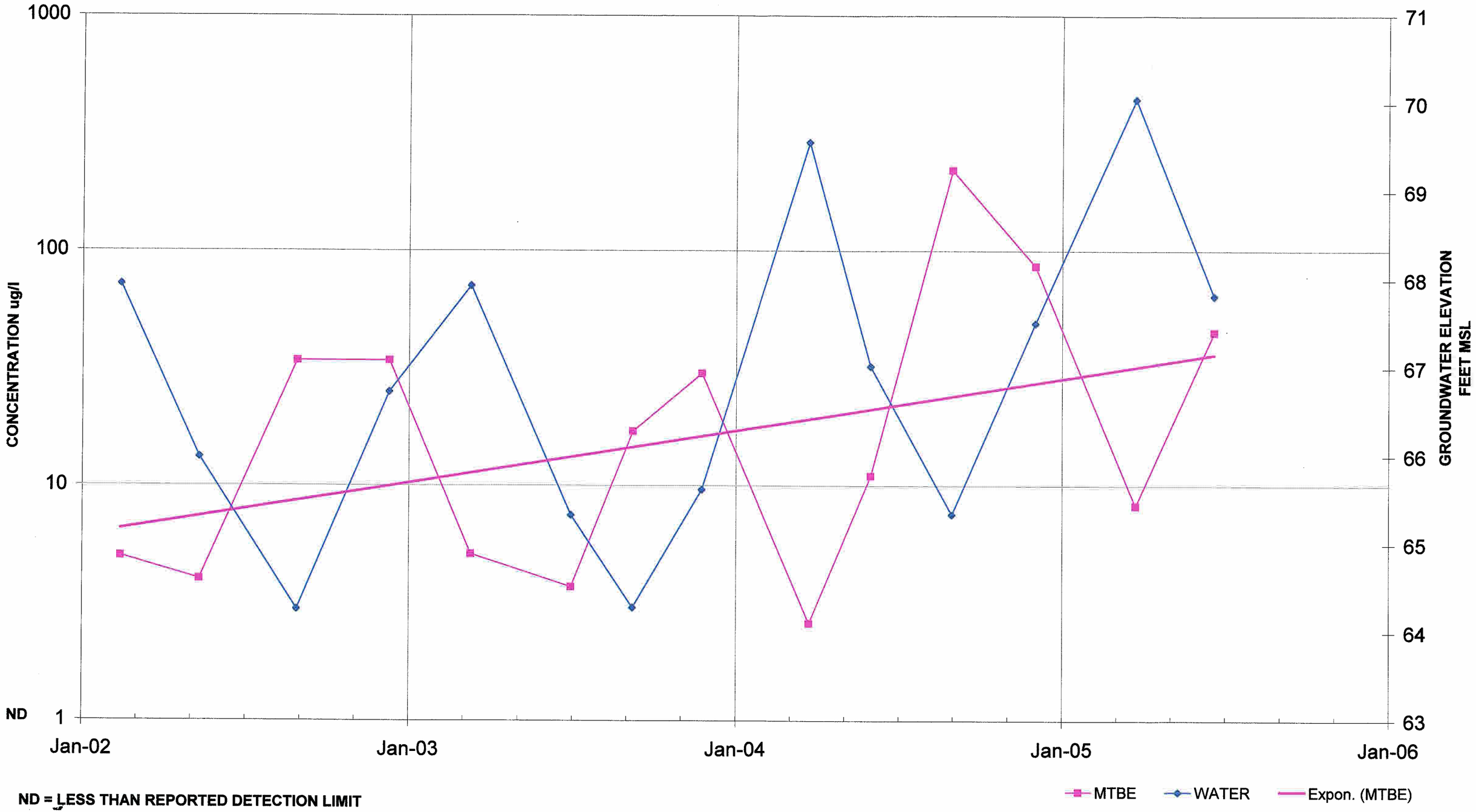
Note: results in the diesel range are primarily due to overlap from a gasoline range product (see laboratory reports).

TIME vs. MTBE CONCENTRATION GRAPH
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL
TTC JOB NO. 1301.01
MW-2



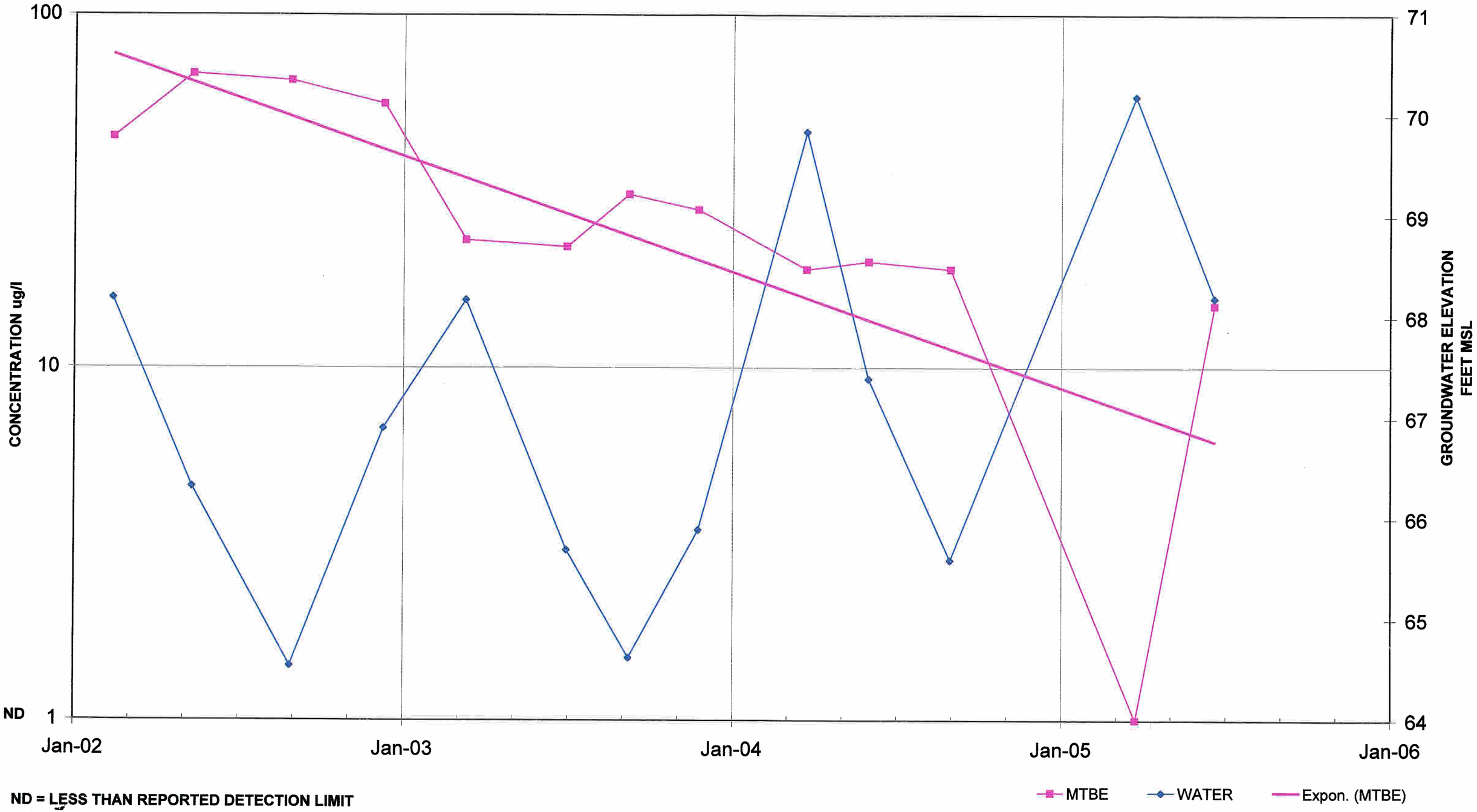
ND = LESS THAN REPORTED DETECTION LIMIT

TIME vs. MTBE CONCENTRATION GRAPH
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL
TTC JOB NO. 1301.01
MW-4



ND = LESS THAN REPORTED DETECTION LIMIT

TIME vs. MTBE CONCENTRATION GRAPH
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL
TTC JOB NO. 1301.01
MW-5

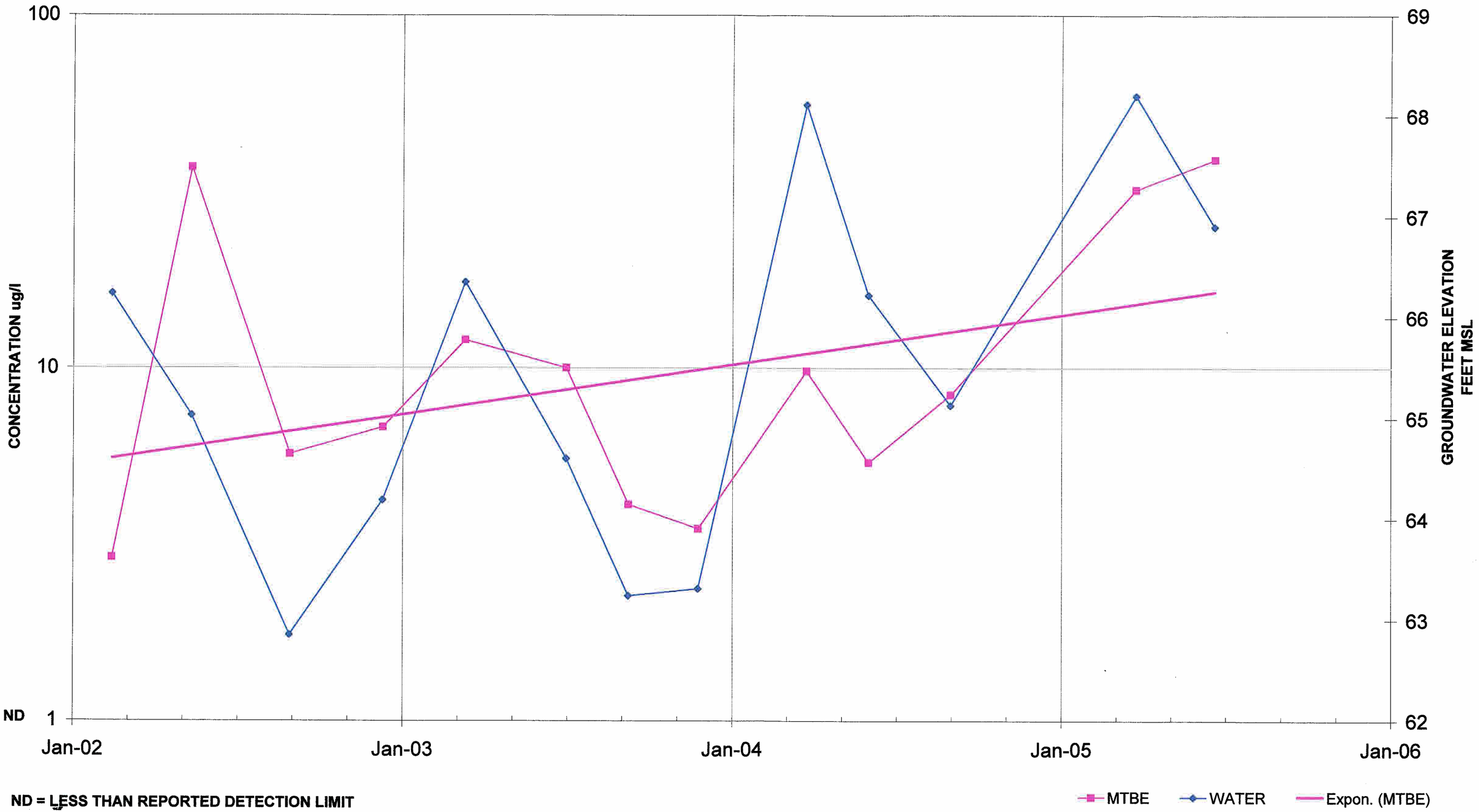


ND = LESS THAN REPORTED DETECTION LIMIT

TIME vs. MTBE CONCENTRATION GRAPH
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL
TTC JOB NO. 1301.01
MW-6

ND = LESS THAN REPORTED DETECTION LIMIT

TIME vs. MTBE CONCENTRATION GRAPH
PIPELINE EXCAVATORS 5715 SEBASTOPOL ROAD, SEBASTOPOL
TTC JOB NO. 1301.01
MW-7



ND = LESS THAN REPORTED DETECTION LIMIT

DISTRIBUTION LIST
FOR
2ND QUARTER 2005 MONITORING REPORT

PIPELINE EXCAVATORS
5715 SEBASTOPOL ROAD
SEBASTOPOL, CALIFORNIA 95473

DATED JULY 27, 2005
JOB NO. 1301.01

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