APPENDIX A

Field Data

TAIT Environmental Management, Inc

ENTERED 3-26-04

Groundwater Sampling Data Sheet

Page ___ of ___

Project Name: Torrance Annual
Project No.: EM2303#B
Well Identification: MW0005
Measurement Point Description: TOC MARK

Date: 3/25/04
Prepared By: GM
Weather: PARTLY CLOUDY
Pump Intake: ~8 ~65

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	63.50	87.75	24.25	---	16.0	48.0	8.0	~65

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
Gallons per foot of casing (D)	0.02	0.16	0.65	1.47

Field Equipment: Solinst,
Purge Method: Grundfos
Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1106	0.5	8.0	1.3	63.81	6.65	22.81	56.2	1.78	Ø	+134	CLEAR/NO ODOR
1112	1.0	16.0	1.3	63.87	6.63	22.70	54.1	1.78	Ø	+120	" "
1116	1.5	24.0	2.0	63.88	6.63	22.73	61.2	1.78	Ø	+115	" "
1121	2.0	32.0	1.6	63.88	6.62	22.73	53.0	1.78	Ø	+110	" "
1124	2.5	40.0	2.0	63.90	6.62	22.72	47.7	1.78	Ø	+109	" "
1128	3.0	48.0	2.0	63.90	6.62	22.69	30.8	1.78	Ø	+107	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1100	1128	1.7	48.0	3.0	68.35	63.62	1135	MW0005-WG032504-0001

Notes:
TAIT TUBING

ft-bmp = feet below measuring point
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BOE-C6-0104626

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Torrance Annual	**Date:** 3 25 04
Project No.: EM2303B	**Prepared By:** SM
Well Identification: DAC-P1	**Weather:** Partly Cloudy ~70°
Measurement Point Description: TOC Mark	**Pump Intake:**

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
--	65.44	90.46	24.72	--	16	48	8	

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,
Purge Method: Grundfos
Well Condition: Good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (MS/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1129	0.5	8	1.3	67.30	6.29	23.39	31	8.8	0.00	-76	
1136	1.0	16	1.1	67.40	6.41	23.49	18	9.3	0.00	-74	
1143	1.5	24	1.1	67.68	6.52	23.35	8	11.0	0.19	-61	
1150	2.0	32	1.1	67.79	6.68	23.35	8	13.4	0.94	-69	
1156	2.5	40	1.3	67.79	6.84	23.31	4	15.4	1.47	-74	
1202	3.0	48	1.3	67.82	6.88	23.33	3	17.9	2.04	-72	
1208	3.5	56							2.35		

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1123	1220	1.3	72	4.5	70.68	67.94	1221	DAC-P1_WG032504-001

Notes: Extra Readings for DO: THE Hose HAD No Bubbles + I shook the Horiba in case there was an air bubble on the sensor.

ft-bmp = feet below measuring point
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BOE-C6-0104627

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: Torrance Annual
Project No.: EM2303B
Well Identification: DAC-P1
Measurement Point Description:
Date: 3 25 04
Prepared By: SM
Weather:
Pump Intake:

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
—				—				

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst
Purge Method: Grundfos
Well Condition:

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity ( )	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
12.14	4.0	64	1.3						2.59		
12.20	4.5	72	1.3						2.77		

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification

Notes:

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

ENTERED 3-26-04

Groundwater Sampling Data Sheet

Page ___ of ___

Project Name: Torrance Annual	**Date:** 3/25/04
Project No.: EM2303AB	**Prepared By:** GM
Well Identification: TMW_04	**Weather:** SUNNY
Measurement Point Description: TOC MARK	**Pump Intake:** ~65

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
--	62.76	77.0	14.24	–	2.5	7.5	1.25	~64

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1238	0.5	1.25	.6	63.05	6.68	23.27	65.1	1.72	Ø	+103	CLEAR
1240	1.0	2.50	.6	63.04	6.68	23.36	88.3	1.72	Ø	+102	" "
1242	1.5	3.75	.6	63.05	6.69	23.50	81.0	1.72	Ø	+101	" "
1244	2.0	5.00	.6	63.05	6.69	23.52	77.3	1.72	Ø	+101	" "
1246	2.5	6.25	.6	63.05	6.69	23.55	73.3	1.72	Ø	+100	" "
1248	3.0	7.50	.6	63.05	6.70	23.55	68.3	1.72	Ø	+99	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1236	1248	.6	8	3.0	65.60	68.72	1255	TMW-04-WG032504-0001

Notes:

ft-bmp = feet below measuring point

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ENTERED 3-26-09

Groundwater Sampling Data Sheet

TAIT Environmental Management, Inc

Page ___ of

Project Name: Torance Annual	**Date:** 3-25-09
Project No.: EM2303B	**Prepared By:** SM
Well Identification: XMW-09	**Weather:** Sunny 70°
Measurement Point Description: TOC N	**Pump Intake:** 66'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
—	65.12	76.35	11.23	--	7.5	22.5	3.75	66'

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1345	0.5	3.75	0.8	66.90	6.77	24.49	18	.202	0.00	+73	
1405	1.0	7.50	—	66.92	6.90	22.83	68	.210	0.00	+72	
1410	1.5	11.25	0.8	65.91	6.86	23.20	43	.210	0.00	+62	
1414	2.0	15.00	0.9	65.91	6.86	23.18	10	0.210	0.00	+56	
1419	2.5	18.75	0.8	65.91	6.86	23.16	2	0.210	0.00	+55	
1423	3.0	22.50	0.9	65.91	6.86	23.13	3	0.209	0.00	+53	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1340	1423	0.8	22.5	3	67.37	65.91	1425	XMW-09_WG032504.0001

Notes: 1348 stopped 1402 = 14

TAIT TUBING

ft-bmp = feet below measuring point

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BOE-C6-0104630

TAIT Environmental Management, Inc

ENTERED 3-25-04

Groundwater Sampling Data Sheet

Page ___ of ___

Project Name: Torrance Annual	**Date:** 3/25/04
Project No.: EM2303AB	**Prepared By:** GM
Well Identification: TMW-08	**Weather:** SUNNY
Measurement Point Description: TOC N	**Pump Intake:** ~70

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	68.53	82.71	16.18	---	2.5	7.5	1.25	~70

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (~~MS/CM~~)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1347	0.5	1.25	.6	67.78	6.59	23.77	126.0	1.91	Ø	-172	CLEAR/NO ODOR
1349	1.0	2.50	.6	67.53	6.53	23.91	115.0	1.89	Ø	-172	
1351	1.5	3.75	.6	67.53	6.53	23.84	112.0	1.88	Ø	-171	
1353	2.0	5.00	.6	67.64	6.53	23.80	72.4	1.87	Ø	-170	
1355	2.5	6.25	.6	67.64	6.52	23.93	8.9	1.83	Ø	-168	
1357	3.0	7.50	.6	67.64	6.52	23.94	6.8	1.83	Ø	-168	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-omp)	Sample Collection Time	Sample Identification
1345	1357	.6	8.0	3.0	69.76	67.23	1405	TMW-08-WG032504-0001

Notes:

ft-bmp = feet below measuring point

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BOE-C6-0104631

TAIT Environmental Management, Inc

ENTERED 3-26-04 TC

Groundwater Sampling Data Sheet

Page ___ of ___

Project Name: Torrance Annual	**Date:** 3/25/04
Project No.: EM2303-B	**Prepared By:** GM
Well Identification: TMW_01	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~70

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	69.72	84.55	14.83	–	2.5	7.5	1.25	~70

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1007	0.5	1.25	.6	70.20	6.46	23.92	>999.0	5.93	Ø	+71	VERY SILTHY
1009	1.0	2.50	.6	70.20	6.37	23.64	7999.0	6.15	Ø	+70	" "
1011	1.5	3.75	.6	70.20	6.39	23.51	>999.0	6.06	Ø	+72	" "
1013	2.0	5.0	.6	70.40	6.36	23.18	257.0	5.86	Ø	+78	SLIGHTLY GRAY
1015	2.5	6.25	.6	70.42	6.37	23.19	153.0	5.92	Ø	+81	CLEAR
1017	3.0	7.50	.6	70.46	6.38	23.15	90.0	5.86	Ø	+81	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
~~1352~~ 1005	1017	.6	8.0	3.0	72.66	69.57	1020	TMW_01_WG032504_0001

Notes: CASING off center + loose. Pump was stuck ABOUT 5-7ft

ft-bmp = feet below measuring point

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BOE-C6-0104632

Chain of Custody Record

ENTERED 3/31/04

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc

STL-4124 (0700)

Client: TAIT	Project Manager: MEHMET / Paul Somes	Date: 3/25/04	Chain of Custody Number: 049150
Address: 701 Parkcenter Dr.	Telephone Number (Area Code)/Fax Number: 714 560 8200	Lab Number: E4C260248	Page 1 of 1
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact: Shelby Mercer	Lab Contact:	
Project Name and Location (State): Torrance Chromate GW Sampling	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: EM2303B			

Analysis (Attach list if more space is needed): VOC

Special Instructions/ Conditions of Recei

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC
TMW-01-Wg032504.0001	3-25-04	10:20		X						X			3
TMW-02-Wg032504.0001		10:30											3
MW0005-Wg032504.0001		1135											3
DAC-P1-Wg032504.0001		1221											3
TMW-04-Wg032504.0001		1255											2
XMW-09-Wg032504.0001		1425											3
TMW-08-Wg032504.0001		1405											3
EB-TAIT032504.0001		130											3
TB-TAIT032504.0001		0:00											3
DB-TAIT032504.0001		7:30											3
													30

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other Normal

QC Requirements (Specify)

1. Relinquished By: Shelby Mercer	Date: 3-25-04	Time: 16:50	1. Received By: [signature]	Date: 3-25-04	Time: 16:50
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0104633

Chain of Custody Record

ENTERED 3/31/04

STL-4124 (0700)

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

Client: TAIT	Project Manager: MEHMET / Paul Sores	Date: 3/22/04	Chain of Custody Number: 049149
Address: 701 North Parkcenter Dr.	Telephone Number (Area Code)/Fax Number: 714 560 8200	Lab Number: E4C250209	Page ____ of ____
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact: Shelly	Lab Contact:	
Project Name and Location (State): Torrance Annual Sampling	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: EM23038			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOC	Special Instructions/ Conditions of Receipt
CMW026-Wg032404-0001	3.24.04	10:30		X						X			3	
WCC-065-Wg032404-0001		11:00												
TMW-07-Wg032404-0001		11:40												
TMW-09-Wg032404-0001		11:45												
WCC-045-Wg032404-0001		1310												
WCC-035-Wg032404-0001		1320												
EB-TAIT032404-0001		730												
TB-TAIT032404-0001		000												
DB-TAIT032404-0001		730												
CMW026-Wg032404-0002		1030												
													30	

30 BOTTLES

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

1. Relinquished By: [signature]	Date: 3/24/04	Time: 6:25	1. Received By: [signature]	Date: 3/24/04	Time: 6:25
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0104634

Chain of Custody Record

STL-4124 (0700)

ENTERED

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

Client: TAIT	Project Manager: Michael Paul Jones (Pacific Legal Work)	Date: 3/23/04	Chain of Custody Number: 049148
Address: 701 [illegible]	Telephone Number (Area Code)/Fax Number: 714 560 [illegible]	Lab Number: E4C230321	Page ____ of ____
City: SANTA ANA; State: CA; Zip Code: 92705	Site Contact: Shelly Mi[illegible]	Lab Contact: Diane	
Project Name and Location (State): TORRANCE Annual GW Sampling	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: EM2303B			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260B (VOCs)	Special Instructions/ Conditions of Receipt
CMW001_WG032304_0001	3/23/04	1350		X						(3)			X	
MCC_095_WG032304_0001		1010												
MW_006_WG032304_0001		1125												
CMW002_WG032304_0001		1235												
BL_03_WG032304_0001		1400												
TMW_11_WG032304_0001		1020												
TB_TB1_032304_0001		—												
DB_[illegible]_032304_0001		7:30												
[illegible]_032304_0001		7:30												
TMW_11_WG032304_0002		1020												

← PLEASE NOTE CHANGE TO COC. 4/2/04 Karen Adkison

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Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Normal

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 3-23-04	Time: 16:15	1. Received By: [signature]	Date: 3-23-04	Time: 16:15
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0104635

Chain of Custody Record

ENTERED 3/24/04

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: TAIT	Project Manager: MEHMET / Paul Sorres PRS@haleyAldrich.com	Date: 3/22/04	Chain of Custody Number: 049147
Address: 101 North Parkcenter Dr.	Telephone Number (Area Code)/Fax Number: 714 560 6200	Lab Number: E4C220234	Page ____ of ____
City: Santa Ana; State: CA; Zip Code: 92705	Site Contact: Shelly	Lab Contact:	
Project Name and Location (State): Torrance Annual GW Sampling	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: EM2303B			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): VOC	Special Instructions/ Conditions of Receipt
TMW-10_WG032204_0001	3/22/04	1400		X							X				3	
TMW-10_WG032204_0002	3/22/04	1400		X							X				3	
WCC_055_WG032204_0001	"	1235		X							X				3	
DB-TAIT032204_0001		1100		X							X				3	
EB-TAIT032204_0001		1100		X							X				3	
TB-TAIT032204_0001		0:00		X							X				3	
TMW-15_WG032204_0001		1430		X							X				3	
XMW-19_WG032204_0001		1150		X							X				3	
TMW-14_WG032204_0001		1315		X							X				3	
															27	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other ____ Normal

QC Requirements (Specify):

1. Relinquished By: Shelly Mueller	Date: 3/22/04	Time: 1630	1. Received By: Matt Cunningham	Date: 3-22-04	Time: 16 30
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0104636

TAIT Environmental Management, Inc

ENTERED 3-26-04

Groundwater Sampling Data Sheet

Page ___ of

Project Name: Torrance Annual	**Date:** 03 25 04
Project No.: EM2303B	**Prepared By:** SM
Well Identification: TMW_02	**Weather:** Overcast 70°
Measurement Point Description: TOC N	**Pump Intake:** ~72'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	69.59	85.11	15.52	--	2.50	7.5	1.25	~72'

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: good, overgrown

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1009	0.5	1.25	0.3	71.69	6.57	23.66	16	0.297	0.28	-125	Black, strong odor like gas
1012	1.0	2.50	0.4	72.00	6.68	23.29	4	0.307	0.00	-144	" "
1015	1.5	3.75	0.4	71.73	6.77	23.11	5	0.314	0.00	-156	clear, no odor
1019	2.0	5.00	0.3	71.67	6.83	23.35	0	0.321	0.00	-162	"
1023	2.5	6.25	0.3	71.67	6.86	23.41	8	0.325	0.00	-166	"
1027	3.0	7.50	0.3	71.67	6.88	23.40	9	0.326	0.00	-169	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1005	1027	0.3	7.5	3	72.69	71.67	1030	TMW_02-WG032504-0001

Notes: Tubing is Black where submerged in water
Reduced GPM @ 1013

ft-bmp = feet below measuring point

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TAIT Environmental Management, Inc

3/26/04 TC

Groundwater Sampling Data Sheet

Page ___ of

Project Name: Torrance Annual	**Date:** 3 24 04
Project No.: EM2303A	**Prepared By:** SM
Well Identification: WCC-03S	**Weather:** Windy ~68°
Measurement Point Description: TOC Mark	**Pump Intake:**

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	64.19	88.81	24.62	---	16	48	8	

Well Diameter (in)	Gallons/Foot			
	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: IN 6' hole

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1245	0.5	8	1.3	64.45	6.54	23.23	86.6	0.318	0.00	-137	odor, clm
1252	1.0	16	1.1	64.45	6.62	23.18	88.3	0.263	0.00	-157	odor
1258	1.5	24	1.3	64.45	6.67	23.16	99.9	0.236	0.00	-168	odor
1305	2.0	32	1.1	64.45	6.71	23.16	76.7	0.221	0.00	-177	"
1311	2.5	40	1.3	64.45	6.72	23.10	43.4	0.212	0.00	-181	"
1317	3.0	48	1.3	64.45	6.77	23.07	53.0	0.199	0.00	-184	"

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1239	1317	1.3	48	3	69.11	64.45	1320	WCC-03S-WG032404-0001

Notes:

ft-bmp = feet below measuring point

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BOE-C6-0104638

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: Torrance Annual	**Date:** 3·24·04
Project No.: EM2303A	**Prepared By:** SM
Well Identification: CMW026	**Weather:** Partly Cloudy ~68°
Measurement Point Description: TOC Mark	**Pump Intake:** ~65'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	63.62	118.11	54.49	–	35.50	106.5	17.75	~65

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, horiba

Purge Method: Grundfos

Well Condition: Good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
922	0.5	17.75	1.0	64.62	6.51	22.19	8.5	64.5mS/M	0.91	+105	
942	1.0	35.50	2.22	65.04	6.87	22.13	61	0.1265M	1.69	-112	
952	1.5	53.25	1.8	65.04	6.92	22.20	8	0.128SM	1.93	-106	
1003	2.0	71.00	1.6	65.04	6.94	22.13	58	0.129	2.03	-101	
1014	2.5	88.75	1.6	65.04	6.96	22.18	34	0.129	2.20	-96	
1025	3.0	106.50	1.6	65.04	6.98	22.19	37	0.127	2.24	-94	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
904	1025	1.6	106.50	3	74.52	65.04	1030	CMW026-WG032404-0002 CMW026-WG032404-0001

Notes: Drillers on either side of well ~200ft Away
Flow stopped for 2 min @ 924

ft-bmp = feet below measuring point
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BOE-C6-0104639

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name:	**Date:** 3/23/04
Project No.: EM2303A	**Prepared By:** GEORGE
Well Identification: WCC_06S	**Weather:** CLOUDY
Measurement Point Description: TOC ~~NORTH~~ EAST MARK	**Pump Intake:** ~75

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
--	64.51	87.65	23.14	--	15	45	7.5	~75

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: ~~Good~~ BURIED UNDER / GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
935	0.5	7.5	.7	66.39	7.53	23.25	335.0	0.615	Ø	-193	SLIGHTLY GRAY
943	1.0	15.0	.9	66.48	6.42	23.43	281.0	0.799	Ø	-206	NO ODOR
950	1.5	22.5	1.1	66.46	7.28	23.49	141.0	0.883	Ø	-212	" "
959	2.0	30.0	.8	66.82	7.94	23.09	76.4	0.919	Ø	-214	CLEAR
1008	2.5	37.5	.8	66.75	8.45	23.32	44.0	0.975	Ø	-217	" "
1017	3.0	45.0	.8	66.69	9.07	23.36	35.2	1.08	Ø	-215	" "
1026	3.5	52.5	.8	66.62	9.46	23.44	26.0	1.14	Ø	-216	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
924	1050	.9	75.0	5.0	69.13	66.45	11:00	WCC_06S_WG032404_0001

Notes: WELL HARD TO GET TO, TONS OF BUSHES AROUND IT.
PH IS NOT STABLE WILL TAKE MORE READING, AND SEE IT STABALIZES.

ft-bmp = feet below measuring point
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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

Project Name: C6 Torrance annual GWS.	**Date:** 8/24/04
Project No.: ~~EM2305~~ EM2303B	**Prepared By:** GM
Well Identification: WCC_065	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Screen:**
	Pump Intake: ~66

Depth to LNAPL (ft-bmp)	Depth to Static Water Level (ft-bmp)	Well Total Depth (ft-bmp)	Water Column Height (ft)	LNAPL Thickness (ft-bmp)	One (1) Casing Volume (gallons)	Three (3) Casing Volumes (gallons)	Above Screen Volume	Screen Volume
—	64.51	87.65	23.14	—	15.0	45.0	—	—

Well Diameter (in)				Gallons/Foot			
				0.75	2	4	6
0.75	2	4	6	0.02	0.16	~~0.65~~	1.47

Field Equipment: Solinst

Purge Method: GRUNDFOS

Well Condition: ~~WELL~~ WAS BURIED / GOOD

Time	Casing / Screen	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1035	4.0	60.0	.8	66.64	9.52	23.36	23.2	1.17	Ø	-217	CLEAR
1043	4.5	67.5	.9	66.66	9.55	23.40	17.3	1.20	Ø	-218	" "
1050	5.0	75.0	1.1	66.69	9.56	23.40	15.2	1.22	Ø	-218	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
924	1050	.9	75.0	5.0	69.13	64.79	11:00	WCC_065_WG032404_0001

Notes: PH WAS UNSTABLE ~~TOOK~~ PUMPED A COUPLE OF EXTRA CASING VOLUMES TO SEE IF IT WOULD STABALIZE.

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name: Torrance Annual	**Date:** 3/24/04
Project No.: EM2303A6	**Prepared By:** SM
Well Identification: TMW_07	**Weather:** overcast ~70°
Measurement Point Description: TOC N	**Pump Intake:** 67'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
—	66.05	83.61	17.56	—	3	9	1.5	67'

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: Deep in weeds

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1118	0.5	1.5	0.5	66.39	7.05	23.31	>999	0.197	2.40	+101	
1121	1.0	3.0	0.5	66.28	7.10	23.06	486	0.196	1.60	+97	
1124	1.5	4.5	0.5	66.27	7.11	23.40	253	0.194	1.40	+93	
1127	2.0	6.0	0.5	66.28	7.13	23.59	177	0.194	1.28	+88	
1131	2.5	7.5	0.4	66.28	7.14	23.60	115	0.192	1.20	+85	
1135	3.0	9.0	0.4	66.28	7.14	23.65	86	0.191	1.13	+83	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1115	1135	0.5	9	3	69.56	66.28	1140	TMW-07-W-032404.0001

Notes:

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name:	**Date:** 3/24/04
Project No.: EM2303A	**Prepared By:** GM
Well Identification: TMW_09	**Weather:** PARTLY CLOUDY
Measurement Point Description: TOC NORTH	**Pump Intake:** ~69

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
—	66.31	80.06	13.69	—	2	6	1	~69

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: WELL EXTENSION IS LOOSE

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1128	0.5	1.0	.5	66.68	9.86	22.99	54.2	1.60	Ø	+22	CLEAR
1129	1.0	2.0	1.0	66.70	9.82	23.16	28.3	1.61	Ø	+22	
1131	1.5	3.0	.5	66.72	9.79	23.45	21.0	1.61	Ø	+22	
1133	2.0	4.0	.5	66.72	9.79	23.50	16.4	1.61	Ø	+22	
1135	2.5	5.0	.5	66.74	9.79	23.66	15.7	1.62	Ø	+22	
1136	3.0	6.0	1.0	66.75	9.80	23.72	14.6	1.62	Ø	+22	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1126	1136	.7	6.0	3.0	69.10	66.45	1145	TMW_09-WG032404_0001

Notes:

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name:	**Date:** 3/24/04
Project No.: EM2303A	**Prepared By:** GM
Well Identification: WCC_045	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~65

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
—	62.84	89.81	26.97	---	17.5	52.5	8.75	~65

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: NO LID / GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1236	0.5	8.75	1.5	63.20	8.57	23.72	12.0	2.35	Ø	-110	
1243	1.0	17.50	1.25	63.20	8.96	23.63	33.1	2.12	Ø	-105	
1248	1.5	26.25	1.8	63.29	9.16	23.62	10.3	1.95	Ø	-106	
1253	2.0	35.0	1.8	63.30	9.33	23.61	.9	1.87	Ø	-75	
1258	2.5	43.75	1.8	63.30	9.32	23.59	Ø	1.80	Ø	-72	
1303	3.0	52.5	1.8	63.30	9.33	23.63	Ø	1.75	Ø	-53	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1230	1303	1.8	53.0	3.0	68.23	63.00	1310	WCC_045_WG032404_0001

Notes: ADDED WELL LID

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name: Torrance Annual	**Date:** 3/23/04 Screen 99-124
Project No.: EM2303A	**Prepared By:** GEORGE
Well Identification: CMW001	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~80

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
--	66.91	124.26	57.35	---	37.0	111.0	18.5	~80

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1248	0.5	18.5	1.9	76.46	6.85	23.21	153.0	1.13	Ø	-182	CLEAR/SLIGHT SULFURIC ODOR
1258	1.0	37.0	1.9	78.01	6.84	23.20	150.0	1.13	Ø	-179	CLEAR/NO ODOR
1308	1.5	55.5	1.9	79.50	6.84	23.22	82.4	1.12	Ø	-179	" "
1318	2.0	74.0	1.9	80.49	6.83	23.23	29.7	1.11	Ø	-176	" "
1328	2.5	92.5	1.9	76.71	6.99	23.17	1.6	1.09	Ø	-187	" "
1342	3.0	111.0	1.3	80.70	6.96	23.15	Ø	1.07	Ø	-185	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1238	1342	1.8	111.0	3	79.08	78.60	1350	CMW0001_WG032304_0001

Notes:

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name: TORRANCE ANNUAL GW. SAMPLING	**Date:** 3/23/04
Project No.: EM2303~~XB~~	**Prepared By:** GM
Well Identification: TMW_06	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~~70~~ 64

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	63.33	78.70	15.37	---	2.5	7.5	1.25	~~70~~ 64 gm

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1108	0.5	1.25	.6	63.49	6.85	22.35	742.0	1.70	.39	+65	VERY CLOUDY / NO ODOR
1110	1.0	2.50	.6	63.40	6.87	22.56	443.0	1.69	.39	+66	CLOUDY
1112	1.5	3.75	.6	63.40	6.82	22.83	323.0	1.68	.39	+66	" "
1114	2.0	5.00	.6	63.40	6.78	23.04	161.0	1.68	.42	+66	SLIGHTLY CLOUDY
1116	2.5	6.25	.6	63.39	6.75	23.09	98.0	1.67	.42	+66	CLEAR
1118	3.0	7.50	.6	63.39	6.74	23.18	37.8	1.65	.42	+65	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1106	1118	.6	8.0	3	66.40	63.29	1125	TMW-06-WG032304-0001

Notes:

ft-bmp = feet below measuring point

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BOE-C6-0104646

TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: Torrance Annual	**Date:** 3/23/04
Project No.: EM230388	**Prepared By:** GEORGE
Well Identification: WCC_09S	**Weather:** CLOUDY
Measurement Point Description: TOC NORTH	**Pump Intake:** ~~85~~ 70

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	68.33	96.33	28.0	--	18.0	54.0	9.0	~~85~~ 70

Well Diameter (in)	Gallons/Foot			
	0.75	2	4	6
D Gallons per foot of casing	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
942	0.5	9.0	1.3	69.71	6.59	23.06	194.0	1.22	.82	+55	CLOUDY / NO ODOR
947	1.0	18.0	1.8	69.68	6.55	23.08	145.0	1.22	.75	+58	SLIGHTLY CLOUDY
952	1.5	27.0	1.8	69.68	6.60	23.11	56.3	1.22	.58	+63	CLEAR / NO ODOR
957	2.0	36.0	1.8	69.65	6.60	23.10	31.5	1.21	.51	+64	" "
1002	2.5	45.0	1.8	69.65	6.61	23.11	19.8	1.21	.42	+63	" "
1007	3.0	54.0	1.8	69.65	6.64	23.12	22.7	1.22	.41	+55	" "

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
935	1007	1.8	54.0	3	73.93	69.73	1010	WCC-09S-WG032304-0001

Notes:

ft-bmp = feet below measuring point

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TAIT Environmental Management, Inc

Groundwater Sampling Data Sheet

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Project Name: Torrance GW Annual Sampling	**Date:** 3/23/04
Project No.: EM2303#8	**Prepared By:** SM
Well Identification: BL-03	**Weather:** Cloudy ~ 68°
Measurement Point Description: TOC Notch	**Pump Intake:** ~71'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
–	70.08	80.80	10.72	–	2	6	1	~71 SM

Well Diameter (in)	Gallons/Foot 0.75	2	4	6
Gallons per foot of casing (D)	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: Well frame + lid is BROKEN. Lifts up

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1337	0.5	1	0.5	70.13	6.91	22.79	156	0.274	3.53	+153	
1343	1.0	2	0.5	70.47	6.97	25.06	163	0.296	3.21	+136	
1345	1.5	3	0.5	70.47	6.98	23.76	155	0.290	3.61	+123	
1347	2.0	4	0.5	70.48	6.99	23.46	116	0.290	3.51	+124	
1349	2.5	5	0.5	70.48	7.01	23.01	89.7	0.265	3.44	+124	
1351	3.0	6	0.5	70.48	7.10	23.11	123.4	0.297	3.66	+121	
1352	3.5	7	0.5				111.0				

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
SM 1335	1352	0.5	7.0	3.5	72.22	70.48	1400	BL-03-WG032304-0001

Notes: TAIT Tubing
Extra reading for turbidity

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name: Torrance annual GW Sampling	**Date:** 3 23 04
Project No.: EM2303-B	**Prepared By:** SM
Well Identification: CMW002	**Weather:** Cloudy ~69°
Measurement Point Description: TOC Mark	**Pump Intake:** 68'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	65.27	124.34	59.07	---	38.50	115.50	19.25	~68'

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (mS/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1125	0.5	19.25	2.1	65.79	7.21	22.66	5.5	86.7	0.00	-84	
1134	1.0	38.50	2.1	65.80	7.24	22.68	12.4	87.0	0.00	-66	
1144	1.5	57.75	2.0	65.73	7.25	22.69	18.5	87.3	0.00	-58	
1155	2.0	77.00	2.0	65.71	7.25	22.75	5.0	87.4	0.00	-52	
1206	2.5	96.25	1.8	65.70	7.26	22.75	4.1	86.9	0.00	-51	
1219	3.0	115.50	1.6	65.70	7.28	22.78	4.6	0.098 S/M	0.00	-29	
1231	3.5	134.75						0.098 S/M		-34	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
SM 1116	1231	1.9	134.75	3.5	77.08	65.70	1235	CMW002-WG032304.001

Notes: 1207 + 1208 stopped flow
Extra reading for ORP + Conductivity

ft-bmp = feet below measuring point
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Groundwater Sampling Data Sheet

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Project Name: Torrance Annual	**Date:** 3.23.04
Project No.: EM2303	**Prepared By:** SM
Well Identification: TMW-11	**Weather:** overcast ~65°
Measurement Point Description: TOC mark	**Pump Intake:** ~62'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
—	61.65	77.19	15.54	--	2.5	7.5	1.25	~62' ~~59'~~

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing (D)	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
951	0.5	1.25	0.3	61.78	6.64	23.38	682	0.192	0.37	+174	Brown
954	1.0	2.50	0.4	61.78	6.77	24.00	330	0.196	0.48	+139	"
958	1.5	3.75	0.3	61.78	6.82	23.99	211	0.197	0.52	+124	"
1004	2.0	5.00	0.3	61.78	6.90	24.75	360	0.197	0.85	+110	"
1011	2.5	6.25	0.3	61.78	6.95	24.56	273	0.197	1.20	+83	"
1014	3.0	7.50	0.4	61.78	6.98	24.03	98	0.197	0.79	+83	semi clear
1018	3.5	8.75							0.86		

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
947	1016	0.3	8.75	3.5	64.76	61.78	1020	EB-TAIT032304-0001 >730 DB-TAIT032304-0001 TB-TAIT032304-0001 ~~TMW-11-WQ032304-0002~~ TMW-11-WQ032304-0001

Notes: flow stopped 958-1000 1006 1009 Extra ½ casing for DO

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name: Torrance Annual	**Date:** 3/22/04
Project No.: EM2303	**Prepared By:** GM
Well Identification: XMW-19	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~76.61

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A - B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	60.56	76.95	16.39	--	10.0	30.0	5.0	GM ~76.61

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m3/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1124	0.5	5.0	.8	60.96	6.50	23.21	422.0	1.95	.42	+216	SLIGHTLY CLOUDY
1128	1.0	10.0	1.3	60.94	6.68	23.20	304.0	1.96	.76	+41	" "
1133	1.5	15.0	1.0	60.78	6.79	23.43	356.0	1.94	.65	+43	" "
1138	2.0	20.0	1.0	60.75	6.76	23.47	289.0	1.94	.60	+37	" "
1143	2.5	25.0	1.0	60.75	6.86	23.48	145.0	1.93	.65	+11	CLEAR
1148	3.0	30.0	1.0	60.75	6.86	23.48	85.5	1.90	.66	-4	CLEAR

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1118	1148	1.0	30	3	63.83	60.75	1150	XMW-19-WG032204-0001

Notes: TAIT HOSE

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name:	**Date:** 3-22-04
Project No.: EM2303A	**Prepared By:** SM
Well Identification: WCC-05S	**Weather:** overcast ~70°
Measurement Point Description: TOC N	**Pump Intake:** ~64'

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	62.00	90.07	28.07	--	18	54	9	~64'

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1152	0.5	9	0.8	62.25	6.92	23.26	11	0.181	2.13	+83	
1157	1.0	18	SM 2.253	62.15	6.96	23.27	15.9	0.184	2.11	+84	
1205	1.5	27	SM 1.1	62.16	7.00	23.30	10.6	0.186	1.99	+84	
1212	2.0	36	1.3	62.16	7.02	23.36	0	0.184	1.90	+81	
1221	2.5	45	1.0	62.15	7.03	23.47	0	0.184	1.82	+80	
1230	3.0	54	1.0	62.15	7.04	23.40	0	0.184	1.78	+81	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1140	1230	1.3	54	3	67.61	62.15	1235	DUP-TAIT032204-0001-1100 EB-TAIT032204-0001-1100 WCC-05S-WG032204-0001

Notes:

ft-bmp = feet below measuring point

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Groundwater Sampling Data Sheet

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Project Name: Torrance Annual GW	**Date:** 3/22/04
Project No.: EM2303A	**Prepared By:** GM
Well Identification: TMW_14	**Weather:** CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~~80~~ 71

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	70.61	85.31	14.70	---	2.5	7.5	1.25	GM ~~80~~ 71

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst

Purge Method: Grundfos

Well Condition: GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (MS/CM)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1301	0.5	1.25	.6	70.70	6.43	23.42	55.9	5.74	.72	+53	
1303	1.0	2.50	.6	70.80	6.43	23.43	46.9	5.60	.69	+54	
1305	1.5	3.75	.6	70.80	6.44	23.43	44.5	5.49	.67	+55	
1307	2.0	5.0	.6	70.80	6.45	23.95	16.3	4.81	.53	+60	
1309	2.5	6.25	.6	70.80	6.46	23.94	17.2	4.76	.54	+61	
1311	3.0	7.50	.6	70.80	6.46	23.95	17.2	4.71	.53	+62	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1259	1311	.6	8	3	73.55	70.80	1315	TMW_14_W032204_0001

Notes:

ft-bmp = feet below measuring point

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3/25/04 JC

Groundwater Sampling Data Sheet

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Project Name: Torrance	**Date:** 3.22.04
Project No.: EM2303	**Prepared By:** SM
Well Identification: TMW-10	**Weather:** Sunny ~75°
Measurement Point Description: TOC N	**Pump Intake:** ~60

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	61.00	78.00	17	–	3	9	1.5	~60

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
Gallons per foot of casing D	0.02	0.16	0.65	1.47

Field Equipment: Solinst, Horiba

Purge Method: Grundfos

Well Condition: good

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (S/M)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1347	0.5	1.5	0.8	61.01	6.94	23.15	7999	0.188	1.61	+37	
1349	1.0	3.0	0.8	61.02	7.05	23.28	>999	0.193	0.76	+29	
*1351	1.5	4.5	0.8	61.40	7.12	23.56	7999	0.192	1.02	+41	
1355	2.0	6.0	0.8	61.45	7.21	23.21	239	0.191	2.80	+60	
1357	2.5	7.5	0.8	61.56	7.21	23.15	209	0.192	2.16	+60	
1359	3.0	9.0	0.8	61.58	7.22	23.17	112	0.192	2.18	+64	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1345	1359	0.8	9	3	47.40	61.56	1400	TMW-10-WG032204.0002 TMW-10-WG032204.0001

Notes: stopped 51-53

ft-bmp = fee: below measuring point

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3/23/04 TCK

Groundwater Sampling Data Sheet

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Project Name: Torrance Annual GW	**Date:** 3/22/04
Project No.: EM2303AB	**Prepared By:** GM
Well Identification: TMW-15	**Weather:** PARTLY CLOUDY
Measurement Point Description: TOC MARK	**Pump Intake:** ~80 72

Depth to LNAPL (ft-bmp)	A Depth to Static Water Level (ft-bmp)	B Well Total Depth (ft-bmp)	C Water Column Height (ft) (A – B = C)	LNAPL Thickness (ft-bmp)	E One (1) Casing Volume (gallons) (CXD=E)	Three (3) Casing Volumes (gallons)	½ Casing per Parameter (E/2)	Pump setting depth
---	68.68	87.20	18.52	–	3.0	9.0	1.5	GM ~80 72

	Gallons/Foot			
Well Diameter (in)	0.75	2	4	6
D **Gallons per foot of casing**	0.02	0.16	0.65	1.47

Field Equipment: Solinst,

Purge Method: Grundfos

Well Condition: NO LID/GOOD

Time	Casing	Volume Purged (gallons)	Flow Rate (gpm)	Water Level (ft-bmp)	Ph	Temperature (°C)	Turbidity (NTU)	Conductivity (m S/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Observations
1404	0.5	1.5	.8	72.80	6.84	23.04	396.0	.97	Ø	-98	CLOUDY/BROWN
1409	1.0	3.0	.3	70.43	6.77	24.24	289.0	1.09	Ø	-107	" "
1414	1.5	4.5	.3	70.32	6.78	24.40	245.0	1.12	Ø	-92	" "
1419	2.0	6.0	.3	71.18	6.83	24.04	115.0	1.02	Ø	-79	CLEAR
1423	2.5	7.5	.4	71.65	6.80	23.77	47.0	1.10	Ø	-79	CLEAR
1427	3.0	9.0	.4	71.81	6.86	23.95	68.6	1.12	Ø	-80	

Purge Start Time	Purge End Time	Average Flow (gpm)	Total Gallons Purged	Total Casing Volumes Purged	80% Recovery Water Level Depth (C x .80)-B	Water Level at Sampling Time (ft-bmp)	Sample Collection Time	Sample Identification
1402	1427	.4	9.0	3.0	72.38	68.69	1430	TMW-15-WG032204-0001 ~~TMW-15-GW032204-0001~~

Notes:

ft-bmp = feet below measuring point

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