

**Appendix B**  
**Well Purging and Sampling Records –**  
**February, March, and May 2011**  
**Monthly Monitoring Events**

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## WELL GAUGING DATA

Project # 110323-SPI Date 3-23-11 Client KMEP

Site 15306 Norwalk Blvd. Norwalk

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
GMW-0-15			Unable to	gauge	(Ext. Pump)					
GMW-0-16	0731	4					25.99	48.82		
GMW-0-18			Unable to	gauge	(Ext. Pump)					
GMW-0-19	0725	4					25.29	39.98		
GMW-36			Unable to	gauge	(Ext. pump)					
P2-5	0746	4					25.28	38.12		

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110323-SP1	Client: KMEP
Sampler: SP	Start Date: 3-23-11
Well I.D.: GAW-0-15	Well Diameter: 2 3 (4) 6 8
Total Well Depth: —	Depth to Water: Pre: — Post: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other: Ext. port  
 Start Purge Time: 0950      Flow Rate: 400 mL/min      Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0953	21.2	7.04	3743	4	0.56	-11.3	1200	—
0956	21.1	7.10	3732	4	0.71	-20.5	2400	—
0959	21.2	7.09	3737	4	0.76	-23.9	3600	—
1002	21.2	7.11	3741	4	0.78	-25.8	4800	—
1005	21.2	7.10	3740	4	0.76	-27.4	6000	—

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 6000 mL
Sampling Time: 1006	Sampling Date: 3-23-11
Sample I.D.: GAW-0-15	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: Oxy's
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110323-SPI	Client: KMEP
Sampler: SP	Start Date: 3-23-11
Well I.D.: GMW-0-16	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 48.82	Depth to Water: Pre: 25.99 Post: 26.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0912      Flow Rate: 500 mL/min      Pump Depth: 44'

Time	Temp. (C or F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0915	21.1	7.39	2216	7	0.43	88.3	1500	26.08
0918	21.9	7.31	2224	5	0.38	74.9	3000	26.09
0921	22.0	7.30	2227	4	0.47	66.4	4500	26.09
0924	22.1	7.29	2228	4	0.47	60.8	6000	26.09
0927	22.1	7.28	2229	3	0.49	57.7	7500	26.09

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7500 mL
Sampling Time: 0928	Sampling Date: 3-23-11
Sample I.D.: GMW-0-16	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: Oxy3
Equipment/Blank I.D.: EB-1 @ Time 0938	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110323-SP1	Client: KMEP
Sampler: SP	Start Date: 3-23-11
Well I.D.: GMW-0-18	Well Diameter: 2 3 (4) 6 8
Total Well Depth: _____	Depth to Water: Pre: _____ Post: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other: Ext. Port  
 Start Purge Time: 1109      Flow Rate: 500 mL/min.      Pump Depth: \_\_\_\_\_

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1112	16.6	7.68	2814	896	1.51	63.8	1500	—
1115	16.9	7.79	2826	71000	1.04	47.9	3000	—
1117	17.3	7.76	2840	71000	0.72	31.9	4500	—
1120	17.2	7.76	2849	71000	0.67	33.6	6000	—
1123	17.2	7.78	2855	71000	0.65	35.8	7500	—

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7500AL
Sampling Time: 1124	Sampling Date: 3-23-11
Sample I.D.: GMW-0-18	Laboratory: Alpha Analytical
Analyzed for: (TPHg) (TPHfp) (VOCs) MTBE	Other: Oxy's
Equipment Blank I.D.: @ Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110323-J01	Client: KMEP
Sampler: SP	Start Date: 3-23-11
Well I.D.: GAW-0-19	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: 39.98	Depth to Water: Pre: 25.29 Post: 25.35
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0831      Flow Rate: 500ml/min      Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0834	20.6	7.18	2485	6	0.68	177.9	1500	25.34
0837	21.5	7.15	2474	5	0.76	131.2	3000	25.34
0840	21.9	7.13	2473	4	0.65	109.7	4500	25.35
0843	22.0	7.13	2470	4	0.63	105.2	6000	25.35
0846	22.0	7.13	2466	3	0.62	101.4	7500	25.35

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 7500mL
Sampling Time: 0847	Sampling Date: 3-23-11
Sample I.D.: GAW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: Arys
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110723-SP1	Client: KMEP
Sampler: SP	Start Date: 3-23-11
Well I.D.: GMW-36	Well Diameter: 2 3 (4) 6 8
Total Well Depth: _____	Depth to Water: Pre: _____ Post: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other: (Ext. Port)  
 Start Purge Time: 1029      Flow Rate: 500mL/min.      Pump Depth: \_\_\_\_\_

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to water
1032	21.7	6.99	3844	4	0.78	-41.5	1500	—
1035	21.7	7.08	3825	4	0.97	-46.8	3000	—
1038	21.8	7.10	3809	4	0.86	-48.6	4500	—
1041	21.9	7.09	3806	4	0.81	-47.4	6000	—
1044	21.9	7.10	3804	5	0.80	-48.3	7500	—

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 7500ML
Sampling Time: 1045	Sampling Date: 3-23-11
Sample I.D.: GMW-36	Laboratory: Alpha Analytical
Analyzed for: (TPHg) (TPHfp) (VOC's) MTBE	Other: (Oxy's)
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110323-SP1	Client: KMEP
Sampler: SP	Start Date: 3-23-11
Well I.D.: PZ-5	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: 38.12	Depth to Water: Pre: 25.28 Post: 25.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1156      Flow Rate: 500 mL/min      Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>(µS)</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	Depth to water
1159	20.8	7.24	3545	9	0.68	-15.6	1500	25.38
1202	21.4	7.31	3552	6	0.88	-28.6	3000	25.38
1205	21.6	7.32	3551	6	0.91	-36.7	4500	25.38
1208	21.6	7.32	3552	6	0.76	-41.9	6000	25.39
1211	21.7	7.31	3563	5	0.71	-45.6	7500	25.39
1214	21.8	7.30	3574	5	0.70	-50.7	9000	25.39

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 mL
Sampling Time: 1215	Sampling Date: 3-23-11
Sample I.D.: PZ-5	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> g <u>TPH</u> fp <u>VOC</u> 's MTBE      Other: <u>any's</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: <u>DUP-1</u>



# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
 SITE: DFSP Norwalk  
 15306 Norwalk Blvd, Norwalk

LAB: Alpha Analytical COC of  
 Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Report to:  
 Kinder Morgan Norwalk  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		TPHg, TPHp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation						
GMW-0-15	3-23-11	1006	AQ	6	HCl	X	X				
GMW-0-16		0928				X	X				
GMW-0-18		1124				X	X				
GMW-0-19		0847				X	X				
GMW-30		1045				X	X				
P2-5		1215				X	X				
QVP-1		-				X	X				
EG-1		0938				X	X				
TG-1		0700		3		X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	NO LATER THAN	DATE	TIME
3-23-11	17:30		Sunil Patel	Standard			
RELEASED BY			RECEIVED BY				
			TIME 1425				
RELEASED BY			RECEIVED BY				
			TIME				
RELEASED BY			RECEIVED BY				
			TIME				
SHIPPED VIA			TIME SENT	COOLER #			

## WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client EMEP Date 3-23-11

Site Address 15306 Norwalk Blvd. Norwalk

Job Number 10323-SP1 Technician JP

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
GMW-0-15	X		Vault							
GMW-0-16	X	X	X							
GMW-0-18	X		Vault							
GMW-0-19	X	X	X							
GAU-36	X		Vault							
PZ-5	X	X	X							

**NOTES:**

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## WELL GAUGING DATA

Project # 110513-TR1 Date 5/13/11 Client KMEP

Site KMEP @ NORWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
P2-5	0750	4					25.21	38.29		
GMW-0-16	0930	4					25.76	48.58		
GMW-0-19	0840	4					25.11	40.00	↓	
GMW-0-18	UNABLE TO ACCESS - EXT EQUIPMENT									
GMW-0-15	UNABLE TO ACCESS - EXT EQUIPMENT									
GMW-36	UNABLE TO ACCESS - EXT EQUIPMENT									

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110513-TR1	Client: KMEP
Sampler: TR	Start Date: 5/13/11
Well I.D.: GMW-0-15	Well Diameter: 2 3 4 6 8 <input checked="" type="radio"/>
Total Well Depth: —	Depth to Water: Pre: — Post: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump **EXT PORT** Peristaltic Pump Bladder Pump  
 Sampling Method: Dedicated Tubing New Tubing Other \_\_\_\_\_  
 Start Purge Time: 1016 Flow Rate: 500 mL / MIN Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1019	21.8	6.98	2457	14	0.48	-24.9	1500	—
1022	21.8	6.99	2458	11	0.38	-48.3	3000	—
1025	21.9	7.00	2460	5	0.35	-50.2	4500	—
1028	21.8	7.00	2460	5	0.34	-51.0	6000	—
1031	21.8	7.00	2460	5	0.34	-51.3	7500	—

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7.5L
Sampling Time: 1032	Sampling Date: 5/13/11
Sample I.D.: GMW-0-15	Laboratory: Alpha Analytical
Analyzed for: <input checked="" type="checkbox"/> TPHg <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOC's <input checked="" type="checkbox"/> MTBE	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110513-TR1	Client: KMEP
Sampler: TR	Start Date: 5/13/11
Well I.D.: 6MW-0-1b	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.58	Depth to Water: Pre: 25.76 Post: 25.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0932      Flow Rate: 500 mL/MIN      Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0935	21.43	7.11	1648	11	0.54	53.4	1500	25.82
0938	21.6	7.11	1651	7	0.47	49.4	3000	25.82
0941	21.6	7.12	1658	5	0.42	49.0	4500	25.82
0944	21.7	7.14	1660	3	0.40	48.3	6000	25.82
0947	21.7	7.14	1661	4	0.40	48.0	7500	25.82
0950	21.7	7.14	1661	3	0.39	48.0	9000	25.82

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9.0 L
Sampling Time: 0951	Sampling Date: 5/13/11
Sample I.D.: 6MW-0-14	Laboratory: Alpha Analytical
Analyzed for: <input checked="" type="checkbox"/> PHg <input checked="" type="checkbox"/> PHfp <input checked="" type="checkbox"/> VOC's <input checked="" type="checkbox"/> MTBE	Other: _____
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>110513-TR1</u>	Client: <u>KMEP</u>
Sampler: <u>TR</u>	Start Date: <u>5/13/11</u>
Well I.D. <u>GMW-0-18</u>	Well Diameter: 2 3 4 6 8 <u>(8)</u>
Total Well Depth: <u>—</u>	Depth to Water: Pre: <u>—</u> Post: <u>—</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump EXT PORT Peristaltic Pump Bladder Pump  
 Sampling Method: Dedicated Tubing New Tubing Other \_\_\_\_\_  
 Start Purge Time: 0723 Flow Rate: 200 ML/MIN Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0726	18.4	7.40	2122	>1000	6.58	145.8	600	—
0729	18.3	7.35	2128	>1000	6.16	140.3	1200	—
0732	18.3	7.34	2138	>1000	6.10	137.5	1800	—
0735	18.3	7.35	2140	>1000	6.10	137.0	2400	—
0738	18.4	7.34	2140	>1000	6.15	136.8	3000	—

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>3.0 L</u>
Sampling Time: <u>0739</u>	Sampling Date: <u>5/13/11</u>
Sample I.D.: <u>GMW-0-18</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>(TPHg) (TPHfp) (VOC's) (MTBE)</u>	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110513-TR1	Client: KMEP
Sampler: TX	Start Date: 5/13/11
Well I.D.: GMW-0-19	Well Diameter: 2 3 4 6 8
Total Well Depth: 40.00	Depth to Water: Pre: 25.11 Post: 25.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0846      Flow Rate: 500 ML / MIN      Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0849	21.2	7.09	1671	7	0.40	51.2	1500	25.20
0852	21.4	7.13	1669	5	0.36	47.4	3000	25.20
0855	21.4	7.13	1664	4	0.31	45.3	4500	25.20
0858	21.5	7.14	1665	5	0.34	44.8	6000	25.20
0901	21.5	7.14	1665	5	0.34	44.5	7500	25.20

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7.5
Sampling Time: 0902	Sampling Date: 5/13/11
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPHg <input checked="" type="checkbox"/> TPHfp <input checked="" type="checkbox"/> VOC's <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110513-TR1	Client: KMEP
Sampler: TK	Start Date: 5/13/11
Well I.D.: GMW-36	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth: —	Depth to Water: Pre: — Post: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: <b>YSI 556</b>

Purge Method: 2" Grundfos Pump **EXPORT** Peristaltic Pump Bladder Pump  
 Sampling Method: Dedicated Tubing New Tubing Other \_\_\_\_\_

Start Purge Time: 1047 Flow Rate: 500 mL/MIN Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1050	25.4	7.50	2335	63	6.18	-863	1500	—
1053	25.2	7.42	2418	48	5.90	-905	3000	—
1056	25.2	7.40	2503	45	5.85	-936	4500	—
1059	25.1	7.40	2483	50	5.93	-956	6000	—
1102	25.1	7.39	2468	53	5.82	-986	7500	—

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7.5L
Sampling Time: 1103	Sampling Date: 5/13/11
Sample I.D.: GMW-36	Laboratory: <b>Alpha Analytical</b>
Analyzed for: TPHg TPHfp VOC's MTBE	Other: _____
Equipment Blank I.D.: EB-1 @ Time 1120	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110513-TR1	Client: KMEP
Sampler: TR	Start Date: 5/13/11
Well I.D.: P2-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 38.29	Depth to Water: Pre: 25.2 / Post: 25.41
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0758      Flow Rate: 500 mL/MIN      Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0801	21.1	6.80	2442	22	0.79	-134.5	1500	25.40
0804	21.2	6.80	2437	18	0.72	-140.6	3000	25.40
0807	21.2	6.78	2433	12	0.70	-144.3	4500	25.41
0810	21.3	6.78	2432	10	0.70	-145.3	6000	25.41
0813	21.3	6.78	2432	10	0.70	-146.0	7500	25.41

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7.5 L
Sampling Time: 0814	Sampling Date: 5/13/11
Sample I.D.: P2-5	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u> Other:	
Equipment Blank I.D.: @ _____	Duplicate I.D.: <u>DUP-1</u>

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

LAB Alpha Analytical COC / of /

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	Water #	Preservation #	Type
GMW-0-15	5-13-11	1032	AQ	6	HCl	VOA
GMW-0-16		0951		6		
GMW-0-18		0739		6		
GMW-0-19		0902		6		
GMW-36		1103		6		
P2-5		0814		6		
P2-1				6		
EB-1		1120		6		
TR-1		0700		2		

CONDUCT ANALYSIS TO DETECT	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
TPHg, TPHfp (EPA 8015M)				
VOC's & Oxygenates (EPA 8260B)				
X				
X				
X				
X				
X				
X				
X				
X				
X				
X				
X				
X				
X				

RESULTS NEEDED  
 NO LATER THAN

Standard

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	DATE	TIME
	5/13/11	1130	T.R	5-13-11	1530

RELEASED BY	RECEIVED BY	TIME	DATE	TIME	DATE
	<i>[Signature]</i>	1530	5-13-11		

RELEASED BY	RECEIVED BY	TIME	DATE	TIME	DATE

SHIPPED VIA	TIME SENT	COOLER #

## WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client KAEP Date 5/13/11  
 Site Address 15300 NORMAN BLVD - NORMAN  
 Job Number 110513-TR1 Technician TR

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
P2-5	X	X	✓							
GMW-0-16	X	X	X							
GMW-0-19	X	X	✓							
GMW-0-18	X	X								
GMW-0-15	X	X								
GMW-36	X	X								

NOTES: GMW-0-18, GMW-0-15, GMW-36 : VAULTS

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## WELL GAUGING DATA

Project # 110224-TR1 Date 2/24/11 Client KMEP

Site KMEP @ NORWALK

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
GMW-0-19	0735	4					25.55	39.95	↓	
GMW-0-16	0825	4				26.02	48.61			
P2-5	1035	4				25.55	38.30			
GMW-6	0910	4				<del>29.2</del> <sup>29.2</sup>	29.28	49.44		7
GMW-0-18	—	UNABLE TO GAUGE				—	EXT PUMP	—		
GMW-0-15	—	UNABLE TO GAUGE				—	EXT PUMP	—		
GMW-30	—	UNABLE TO GAUGE				—	EXT PUMP	—		

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TK1	Client: KMEP
Sampler: M	Start Date: 2/24/11
Well I.D.: GMW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.44	Depth to Water: Pre: 29.28 Post: 29.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_

Start Purge Time: 0918      Flow Rate: 500 ML/MIN      Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0921	20.8	7.65	1019	4	1.09	-70.0	1500	29.39
0924	21.0	7.58	929	2	0.87	-73.0	3000	29.39
0927	21.2	7.49	896	2	0.82	-73.3	4500	29.39
0930	21.2	7.43	859	2	0.80	-73.5	6000	29.39
0933	21.2	7.43	850	2	0.80	-73.2	7500	29.39
0936	21.2	7.42	846	2	0.78	-74.0	9000	29.39

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9.0 L
Sampling Time: 0937	Sampling Date: 2/24/11
Sample I.D.: GMW-6	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other: _____
Equipment Blank I.D.: @ _____	Duplicate I.D.: DUP-2

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TR1	Client: KMEP
Sampler: TR	Start Date: 2/24/11
Well I.D.: GMW-36	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: —	Depth to Water: Pre: — Post: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other EXT. PORT  
 Start Purge Time: 1250      Flow Rate: 500 mL/min      Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u> )	Depth to water
1253	21.9	7.39	2584	3	1.70	-105.3	1500	—
1256	22.0	7.27	2589	3	1.37	-112.5	3000	—
1259	22.1	7.16	2567	3	0.95	-120.5	4500	—
1302	22.1	7.13	2559	3	0.92	-122.8	6000	—
1305	22.1	7.11	2556	2	0.90	-123.8	7500	—
1308	22.1	7.10	2551	2	0.90	-125.0	9000	—

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9.02
Sampling Time: 1309	Sampling Date: 2/24/11
Sample I.D.: GMW-36	Laboratory: Alpha <u>Analytical</u>
Analyzed for: <u>TRHg</u> <u>TPHfp</u> <u>VOE's</u> <u>MTBE</u>	Other:
Equipment Blank I.D.: EB-1 @ 1345 <small>Time</small>	Duplicate I.D.:



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TR1	Client: KMEP
Sampler: TR	Start Date: 2/24/11
Well I.D.: GMW-0-15	Well Diameter: 2 3 <u>4</u> 6 8 <u>  </u>
Total Well Depth: <u>  </u>	Depth to Water: Pre: <u>  </u> Post: <u>  </u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other: EXT PORT  
 Start Purge Time: 1149      Flow Rate: 400 mL/MIN      Pump Depth:   

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u> )	Depth to water
1152	21.5	7.20	2562	27	1.11	-80.9	1200	—
1155	21.6	7.02	2518	14	0.90	-84.8	2400	—
1158	21.4	7.04	2515	10	0.82	-88.8	3600	—
1201	21.4	7.01	2511	7	0.84	-90.1	4800	—
1204	21.4	7.01	2499	7	0.80	-92.0	6000	—
1207	21.6	7.00	2495	6	0.83	-93.2	7200	—

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>7.2 L</u>
Sampling Time: <u>1208</u>	Sampling Date: <u>2/24/11</u>
Sample I.D.: <u>GMW-0-15</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPH</u> g <u>TPH</u> p <u>VOC</u> 's <u>MTBE</u>	Other: <u>  </u>
Equipment Blank I.D.: <u>  </u> @ <u>  </u> Time	Duplicate I.D.: <u>  </u>

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TR1	Client: KMEP
Sampler: TR	Start Date: 2/24/11
Well I.D.: GMW-0-16	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.61	Depth to Water: Pre: 26.02 Post: 26.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0826      Flow Rate: 500 mL/MIN      Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u> )	Depth to water
0829	21.5	7.26	1492	5	1.05	84.4	1500	26.08
0832	21.8	7.26	1488	3	0.95	67.9	3000	26.08
0835	21.8	7.22	1485	2	0.90	65.8	4500	26.08
0838	21.8	7.20	1480	1	0.88	64.2	6000	26.08
0841	21.9	7.18	1480	2	0.85	64.0	7500	26.08
0844	21.9	7.18	1476	2	0.85	63.6	9000	26.08

Did well dewater? Yes  No       Amount actually evacuated: 9.06

Sampling Time: 0845      Sampling Date: 2/24/11

Sample I.D.: GMW-0-16      Laboratory: Alpha Analytical

Analyzed for:  TPHg  TPHfp  VOC's  MTBE      Other: \_\_\_\_\_

Equipment Blank I.D.: @ \_\_\_\_\_ Time      Duplicate I.D.: \_\_\_\_\_

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TR1	Client: KMEP
Sampler: TR	Start Date: 2/24/11
Well I.D.: GMW-0-18	Well Diameter: 2 3 (4) 6 8
Total Well Depth: —	Depth to Water: Pre: — Post: —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other: EXT PORT  
 Start Purge Time: 1005      Flow Rate: 2500 mL/min      Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1008	21.5	7.82	2462	713	1.82	32.3	1500	—
1011	21.6	7.76	2480	>1000	0.96	25.9	3000	—
1014	21.6	7.72	2483	>1000	0.80	25.0	4500	—
1017	21.7	7.70	2480	>1000	0.75	24.3	6000	—
1020	21.7	7.70	2476	>1000	0.72	22.6	7500	—

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 7.5
Sampling Time: 1021	Sampling Date: 2/24/11
Sample I.D.: GMW-0-18	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.: DUP-1

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TR1	Client: KMEP
Sampler: TR	Start Date: 2/24/11
Well I.D.: GMW-0-19	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 39.95	Depth to Water: Pre: 25.55 Post: 25.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0742      Flow Rate: 500 mL/MIN      Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0745	21.3	6.82	1945	4	1.40	96.5	1500	25.61
0748	21.5	7.06	1631	3	1.26	79.5	3000	25.61
0751	21.5	7.03	1644	3	1.12	76.9	4500	25.61
0754	21.7	7.03	1633	2	1.08	75.2	6000	25.61
0757	21.8	7.02	1632	2	1.07	74.9	7500	25.61
0800	21.8	7.02	1630	2	1.15	74.3	9000	25.61

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9.0L
Sampling Time: 0801	Sampling Date: <del>0801</del> 2/24/11
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other:
Equipment Blank I.D.: @	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110224-TR1	Client: KMEP
Sampler: TR	Start Date: 2/24/11
Well I.D.: P2-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 39.30	Depth to Water: Pre: 25.55 Post: 25.62
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1045      Flow Rate: 500 mL/MIN      Pump Depth: 34'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u> )	Depth to water
1048	21.3	7.12	2394	14	1.04	-122.0	1500	25.61
1051	21.3	7.02	2319	8	0.68	-125.6	3000	25.61
1054	21.3	7.05	2296	8	0.59	-130.3	4500	25.62
1057	21.3	6.99	2290	6	0.55	-130.9	6000	25.62
1100	21.3	6.95	2289	5	0.50	-133.3	7500	25.62
1103	21.4	6.95	2285	5	0.53	-133.6	9000	25.62

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9.0L
Sampling Time: 1104	Sampling Date: 2/24/11
Sample I.D.: P2-5	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other:
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

**BLAINE**

TECH SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
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LAB

Alpha Analytical COC

1 of 2

Billing Information:  
Kinder Morgan  
1100 Town and Country Rd.  
Orange CA 95112

Kinder Morgan Norwalk  
Report to:  
Dan Jablonski  
CH2MHILL  
1000 Wilshire Blvd 21st floor  
Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT  
Kinder Morgan

SITE  
DFSP Norwalk

15306 Norwalk Blvd, Norwalk

CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	#	Preservation	Type	CONDUCT ANALYSIS TO DETECT	
							TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)
TB-1	2/24/11	0700	AQ	2	HCl	VOA	X	X
G4MN-0-14		0801		6	HCl	VOA	X	X
G4MN-0-16		0945		6	HCl	VOA	X	X
G4MN-6		0937		6	HCl	VOA	X	X
DUP-2				3	HCl	VOA	X	X
G4MN-0-18		1024		6	HCl	VOA	X	X
DUP-1				6	HCl	VOA	X	X
P2-5		1104		6	HCl	VOA	X	X
G4MN-0-15		1208		6	HCl	VOA	X	X
G4MN-36		1309		6	HCl	VOA	X	X

SAMPLING PERFORMED BY T. RHYMES

DATE 2/24/11 TIME 1400

RELEASED BY:

RECEIVED BY: TIME 1530

RECEIVED BY: DATE 2/24/11 TIME 1500

RELEASED BY

TIME

RECEIVED BY

DATE

TIME

RELEASED BY

TIME

RECEIVED BY

DATE

TIME

SHIPPED VIA

TIME SENT

COOLER #

RESULTS NEEDED  
NO LATER THAN Standard

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Alpha Analytical COC 2 of 2

Billing Information:  
Kinder Morgan  
1100 Town and Country Rd.  
Orange CA 95112

Kinder Morgan Norwalk  
Report to:  
Dan Jablonski  
CH2MHILL  
1000 Wilshire Blvd 21st floor  
Los Angeles, CA 90017

TPHg, TPHfp (EPA 8015M) X

VOC's & Oxygenates (EPA 8260B) X

### CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

### CONTAINERS

MATRIX

Water

#

Preservation

Type

6 HCl VOA

SAMPLE I.D.

DATE

TIME

2/24/11 1345

LAB SAMPLE

STATUS

CONDITION

ADD'L INFORMATION

SAMPLING COMPLETED

DATE

TIME

2/24/11 14:00

SAMPLING PERFORMED BY T. RHYMES

RESULTS NEEDED NO LATER THAN

Standard

RELEASED BY

DATE

TIME

TRIA

RECEIVED BY

TIME

DATE

15:00

RECEIVED BY

TIME

DATE

2/24/11

RECEIVED BY

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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TIME

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TIME

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TIME

DATE

SHIPPED VIA

TIME SENT

COOLER #

RECEIVED BY

TIME

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## WELLHEAD INSPECTION CHECKLIST

Client KMEP Date 2/24/11  
 Site Address 15306 NORWALK - NORWALK  
 Job Number 110224-TR1 Technician TR

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
GMW-0-19	X	X	X							
GMW-0-16	X	X	X							
P2-5	X	X	X							
GMW-6		X	X							
GMW-0-18	X									
GMW-0-15	X									
GMW-36	X									

NOTES: GMW-6: 1/2 TABS MISSING  
GMW-0-18, GMW-0-15, GMW-36: VAULTS



