

SECOND SEMIANNUAL 2010 GROUNDWATER MONITORING REPORT

**DEFENSE FUEL SUPPORT POINT NORWALK
15306 NORWALK BOULEVARD
NORWALK, CALIFORNIA**

Prepared for

**Defense Energy Support Center
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APPENDIX A
Well Gauging, Purging, and Sampling Records
July 2010 Sentry Event

WELL GAUGING DATA

Project # 100712-ma-1 Date 7/12/10 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
EXP-1	0735	4					55.28	128.65		7/12/10
EXP-2	0730	4					55.84	128.06		
EXP-3	0740	4					54.60	123.16		
EXP-5	1326	4					49.45	113.20		
GMW-01	1110	4					23.47	49.10		
WCW-13	1158	4					30.68	60.37		
GMW-0-3	1242	4					24.14	48.02		
WCW-3	1425	4					29.06	50.39		↓
GMW-0-19	0800	4					26.04	39.95	↓	7/13/10
GMW-0-15	— Extraction System Running - Port Sampled —									
GMW-36	— Extraction System Running - Port Sampled —									
GMW-38	0945	4					27.31	53.02	TOC	
WCW-7	1039	4					29.29	51.48		
GMW-0-2	1137	4					24.47	49.18		
GMW-0-16	1224	4					26.28	48.97		
GMW-39	1306	4					27.01	50.51		
MW-SF-1	1442	6					30.51	51.05	↓	↓

WELL GAUGING DATA

Project # 100712-M21 Date 7/15/10 Client KMEP

Site 15036 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-0-18			Extraction System Running -				Port Sampled			7/17/10
PE-5	0749	4					26.09	37.97	TOC	
MW-SF-4	0900	4					31.37	44.31		*Skimmer
GMW-0-14	0959	4					25.78	49.83		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MR1	Client: KMEP
Sampler: MR	Start Date: 7/12/10
Well I.D.: EXP-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 128.65	Depth to Water: Pre: 55.28 Post: 55.28
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: 0822 Flow Rate: 500ml/min Pump Depth: 110'

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
0825	21.72	6.65	1041	3	2.61	-131.7	1500	55.28
0828	21.62	6.77	1065	3	1.89	-90.4	3000	55.28
0831	21.78	6.99	1074	3	1.53	-77.2	4500 4500	55.28
0834	21.89	7.02	1077	3	1.28	-72.3	6000	55.28
0837	21.93	7.07	1080	3	1.04	-67.0	7500	55.28
0840	21.95	7.15	1084	3	0.99	-63.8	9000	55.28
0843	21.98	7.17	1088	3	0.96	-62.9	10500	55.28

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 10,500 mL
Sampling Time: 0844	Sampling Date: 7/12/10
Sample I.D.: EXP-1	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOCs</u> MTBE	Other: See SOW.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MA1	Client: KMEP
Sampler: MA	Start Date: 7/12/10
Well I.D.: EXP-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 128.06	Depth to Water: Pre: 55.87 Post: 55.86
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: 1002 Flow Rate: 500ml/min Pump Depth: 112'

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
1005	21.69	7.20	1629	6	1.85	-101	1500	55.85
1008	21.75	7.15	1724	6	1.54	-105	3000	55.85
1011	21.89	7.13	1744	5	1.30	-119	4500	55.85
1014	21.92	7.14	1741	5	1.12	-127	6000	55.85
1017	22.11	7.11	1737	5	0.83	-123	7500	55.85
1020	22.36	7.15	1728	5	0.52	-134	9000	55.86
1023	22.39	7.14	1727	5	0.48	-139	10,500	55.86
1026	22.41	7.14	1725	5	0.45	-141	12,000	55.86

Did well dewater? Yes <input type="checkbox"/> <input checked="" type="checkbox"/> <u>No</u>	Amount actually evacuated: 12,000 ml
Sampling Time: 1027	Sampling Date: 7/12/10
Sample I.D.: EXP-2	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other: <u>See Sow</u>
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MA-1	Client: KMEP
Sampler: ML	Start Date: 7/12/10
Well I.D.: EXP-3	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: 123.16	Depth to Water: Pre: 54.60 Post: 54.66
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: 0914 Flow Rate: 500 mL/min Pump Depth: 112'

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
0917	21.56	7.46	841	5	2.29	-78.6	1500	54.62
0920	21.68	7.26	862	4	2.08	-69.9	3000	54.65
0923	21.70	7.25	865	4	1.80	-60.2	4500	54.66
0926	21.87	7.33	864	4	1.53	-56.9	6000	54.66
0929	22.02	7.30	864	4	1.20	-55.7	7500	54.66
0932	22.07	7.32	859	4	1.15	-55.4	9000	54.66
0935	22.10	7.32	858	4	1.11	-55.3	10,500	54.66

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 10,500 mL
Sampling Time: 0936	Sampling Date: 7/12/10
Sample I.D.: EXP-3	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MW1	Client: KMEP
Sampler: MW	Start Date: 7/12/10
Well I.D.: EXP-5	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: 113.20	Depth to Water: Pre: 49.45 Post: 49.50
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: 1331 Flow Rate: 500ml/min Pump Depth: 108'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1334	22.32	7.52	956	4	1.52	-8	1500	49.49
1337	22.16	7.36	991	4	1.03	-4	3000	49.50
1340	22.27	7.37	998	3	0.79	1	4500	49.50
1343	22.36	7.37	1005	3	0.67	9	6000	49.50
1346	22.50	7.38	1022	3	0.59	14	7500	49.50
1349	22.63	7.37	1036	3	0.58	18	9000	49.50

Did well dewater? Yes <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/>	Amount actually evacuated: 9000ml
Sampling Time: 1350	Sampling Date: 7/12/10
Sample I.D.: EXP-5	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPH</u> <u>TPHp</u> <u>VOC's</u> MTBE	Other: <u>See SOW</u>
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MW1	Client: KMEP
Sampler: MW	Start Date: 7/12/10
Well I.D.: GMW-0-1	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: 49.10	Depth to Water: Pre: 23.47 Post: 24.31
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: 1115 Flow Rate: 500 mL/min Pump Depth: 45'

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
1118	22.85	7.05	2929	8	3.44	73	1500	24.27
1121	23.52	6.87	2956	6	2.50	70	3000	24.31
1124	24.42	6.87	2958	6	1.80	60	4500	24.31
1127	24.79	6.83	2963	6	1.61	69	6000	24.31
1130	25.06	6.84	2967	6	1.56	64	7500	24.31
1133	25.10	6.85	2970	6	1.53	70	9000	24.31

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 mL
Sampling Time: 1134	Sampling Date: 7/12/10
Sample I.D.: GMW-0-1	Laboratory: Alpha Analytical
Analyzed for: TPHg (PHfp) VOC's MTBE	Other: See Sow.
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160712-MA-1	Client: KMEP
Sampler: MA	Start Date: 7/13/10
Well I.D.: GMW-0-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 49.18	Depth to Water: Pre: 24.47 Post: 25.04
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: 1144 Flow Rate: 500ml/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 <u>ml</u>)	Depth to water
1147	24.02	6.80	3249	7	2.33	111.2	1500	25.02
1150	24.90	6.77	3266	6	1.54	110.8	3000	25.03
1153	25.32	6.78	3275	5	1.21	109.8	4500	25.03
1156	25.49	6.77	3284	4	1.07	109.2	6000	25.04
1159	25.60	6.78	3285	4	0.99	109.3	7500	25.04
1202	25.71	6.79	3287	4	0.97	109.0	9000	25.04

Did well dewater? Yes No Amount actually evacuated: 9000 mL

Sampling Time: 1203 Sampling Date: 7/13/10

Sample I.D.: GMW-0-2 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHp VOC's MTBE Other: See SOW

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-001	Client: KMEP
Sampler: MW	Start Date: 7/12/10
Well I.D.: GMW-0-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 48.02	Depth to Water: Pre: 24.14 Post: 24.56
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: 1246 Flow Rate: 500ml/min Pump Depth: 42'

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
1249	23.79	6.99	2650	109	0.90	-90	1500	24.52
1252	23.96	6.97	2651	104	0.77	-82	3000	24.55
1255	24.16	6.90	2653	102	0.57	-95	4500	24.56
1258	24.58	6.93	2655	100	0.50	-100	6000	24.56
1301	24.81	6.90	2657	98	0.44	-103	7500	24.56
1304	24.91	6.90	2656	97	0.46	-107	9000	24.56

Did well dewater? Yes <input type="checkbox"/> <u>No</u>	Amount actually evacuated: <u>9000 ml</u>
Sampling Time: <u>1305</u>	Sampling Date: <u>7/12/10</u>
Sample I.D.: <u>GMW-0-3</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> <u>MTBE</u>	Other: <u>See below</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100712-MR1</u>	Client: KMEP
Sampler: <u>MW</u>	Start Date: <u>7/14/10</u>
Well I.D.: <u>GMW-0-14</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>49.83</u>	Depth to Water: Pre: <u>35.78</u> Post: <u>26.26</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSL536</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1003 Flow Rate: 500mL/min Pump Depth: 45'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
1006	24.47	7.35	2244	26	2.71	-87.6	1500	26.26
1009	25.34	7.34	2261	23	1.97	-92.4	3000	26.26
1012	25.92	7.34	2266	22	1.71	-94.1	4500	26.26
1015	26.49	7.36	2277	19	1.44	-92.3	6000	26.26
1018	26.60	7.38	2282	19	1.42	-99.9	7500	26.26
1021	26.71	7.37	2286	18	1.38	-105.2	9000	26.26
1024	26.81	7.36	2288	18	1.30	-104.9	10,500	26.26

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>10,500 mL</u>
Sampling Time: <u>1025</u>	Sampling Date: <u>7/14/10</u>
Sample I.D.: <u>GMW-0-14</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPH_{sp}</u> <u>VOC's</u> MTBE	Other: <u>See SOW</u>
Equipment Blank I.D.: <u>EB-3@</u> Time <u>1035</u>	Duplicate I.D.: <u>DUP-3</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MR1	Client: KMEP
Sampler: MA	Start Date: 7/13/10
Well I.D.: GMW-0-15	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: 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: — Flow Rate: — 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 mL)	Depth to water
—	Extraction System			Running in well.				
—	Let Run for			10 mins.				
—	Port Sampled.							
0905	22.47	7.07	2652	2	2.45	-52.6	—	—

Did well dewater? Yes No	Amount actually evacuated: —
Sampling Time: 0905	Sampling Date: 7/13/10
Sample I.D.: GMW-0-15	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> g <u>TPH</u> fp <u>VOC</u> 's MTBE	<u>Other</u> : See Sow
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MA1	Client: KMEP
Sampler: MW	Start Date: 7/13/10
Well I.D.: G1MW-0-16	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 48.97	Depth to Water: Pre: 26.28 Post: 26.31
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: 1228 Flow Rate: 500ml/min Pump Depth: 43'

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
1231	23.26	6.90	2160	8	1.80	144.6	1500	26.31
1234	23.43	6.88	2161	8	1.44	146.5	3000	26.31
1237	23.67	6.88	2162	7	1.10	148.1	4500	26.31
1240	23.86	6.89	2163	5	0.99	149.1	6000	26.31
1243	24.03	6.90	2164	4	0.94	150.1	7500	26.31
1246	24.10	6.90	2165	4	0.90	151.4	9000	26.31

Did well dewater? Yes No Amount actually evacuated: 9000 mL

Sampling Time: 1247 Sampling Date: 7/13/10

Sample I.D.: G1MW-0-16 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE Other: See SOW

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

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100 712-MA1	Client: KMEP
Sampler: MA	Start Date: 7/14/10
Well I.D.: GMW-0-18	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: PVC Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grandfos Pump ~~Peristaltic Pump~~ ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing New Tubing ~~Other~~ Ext. Port
 Start Purge Time: — Flow Rate: — 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 mL)	Depth to water
—	Extraction System			Running in Well.				
—	Let Run for			10 mins.				
—	Port Sampled.							
0730	20.66	7.01	2686	2	6.49	-11.8	—	—

Did well dewater? Yes ~~—~~ No Amount actually evacuated: —

Sampling Time: 0730 Sampling Date: 7/14/10

Sample I.D.: GMW-0-18 Laboratory: Alpha Analytical

Analyzed for: TPHg TPHfp VOC's MTBE ~~Other~~: See SOW

Equipment Blank I.D.: @
Time Duplicate I.D.: DUP-1

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MW	Client: KMEP
Sampler: M	Start Date: 7/13/10
Well I.D.: GMW-0-19	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 37.95	Depth to Water: Pre: 26.09 Post: 26.20
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: 0809 Flow Rate: 500ml/min Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
0812	21.95	7.33	1820	6	3.04	170.7	1500	26.20
0815	22.30	7.36	1855	5	2.32	145.5	3000	26.20
0818	22.71	7.28	1845	5	1.92	139.7	4500	26.20
0821	22.95	7.31	1832	5	1.33	123.5	6000	26.20
0824	23.02	7.29	1828	5	1.26	119.5	7500	26.20
0827	23.15	7.26	1830	5	1.24	114.6	9000	26.20

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9000
Sampling Time: 0828	Sampling Date: 7/13/10
Sample I.D.: GMW-0-19	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOCs MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MA-1	Client: KMEP
Sampler: MA	Start Date: 7/13/10
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: — Flow Rate: — Pump Depth: —

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to water
—	Extraction System			Running in		Well.		
—	Let Run for			10 mins.				
—	Port Sampled.							
0930	23.62	7.04	2711	10	4.25	-70.8	—	—

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: —
Sampling Time: 0930	Sampling Date: 7/13/10
Sample I.D.: GMW-36	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHsp VOC's MTBE	Other: See below
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MW1	Client: KMEP
Sampler: MR	Start Date: 7/13/10
Well I.D.: GMW-38	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: 53.02	Depth to Water: Pre: 27.31 Post: 27.48
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: 0949 Flow Rate: 500 mL/min Pump Depth: 47'

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
0952	22.50	7.31	511	5	2.75	41.2	1500	27.48
0955	22.70	7.28	500	5	2.21	39.7	3000	27.48
0958	23.13	7.28	505	4	1.86	39.7	4500	27.48
1001	23.44	7.25	516	4	1.54	41.7	6000	27.48
1004	23.57	7.25	522	4	1.38	43.0	7500	27.48
1007	23.68	7.25	531	4	1.17	44.0	9000	27.48
1010	23.72	7.24	535	4	1.12	45.2	10,500	27.48
1013	23.77	7.23	537	4	1.09	46.5	12,000	27.48

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 12,000 mL
Sampling Time: 1014	Sampling Date: 7/13/10
Sample I.D.: GMW-38	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHp VOC's MTBE	Other: See SOL
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MN1	Client: KMEP
Sampler: MA	Start Date: 7/13/10
Well I.D.: GMW-39	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 50.51	Depth to Water: Pre: 27.01 Post: 27.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</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: 1311 Flow Rate: 500ml/min Pump Depth: 45'

Time	Temp. (<u>°C</u> 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
1314	24.44	7.21	1028	4	2.80	159.4	1500	27.32
1317	24.61	7.17	1032	3	1.85	159.3	3000	27.40
1320	24.97	7.16	1032	2	1.46	157.7	4500	27.42
1323	25.36	7.17	1034	3	1.23	154.9	6000	27.42
1326	25.66	7.17	1033	3	1.16	152.7	7500	27.42
1329	25.85	7.17	1033	3	1.10	150.8	9000	27.42

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9000 mL
Sampling Time: 1330	Sampling Date: 7/13/10
Sample I.D.: GMW-39	Laboratory: Alpha Analytical
Analyzed for: <u>TPHg</u> <u>TPHfp</u> <u>VOC's</u> MTBE	Other: See SOW
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MW1	Client: KMEP
Sampler: ML	Start Date: 7/13/10
Well I.D.: MW-SF-1	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 51.05	Depth to Water: Pre: 30.51 Post: 30.61
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 Pumping New Tubing Other _____
 Start Purge Time: 1448 Flow Rate: 500ml/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 <u>ml</u>)	Depth to water
1451	28.36	7.27	2035	390	1.43	-283.1	1500	30.60
1454	28.03	7.30	2041	155	0.61	-292.3	3000	30.61
1457	28.13	7.28	2037	84	0.13	-300.3	4500	30.61
1500	28.36	7.26	1995	60	0.12	-301.9	6000	30.61
1503	28.38	7.24	1965	43	0.10	-299.4	7500	30.61
1506	28.37	7.22	1948	34	0.09	-301.2	9000	30.61
1509	28.44	7.20	1917	30	0.09	-302.9	10,500	30.61
1512	28.44	7.18	1907	29	0.08	-304.0	12,000	30.61
1515	28.43	7.16	1899	28	0.08	-304.7	13,500	30.61

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 13,500
Sampling Time: 1516	Sampling Date: 7/13/10
Sample I.D.: MW-SF-1	Laboratory: Alpha Analytical
Analyzed for: <u>TPH</u> g <u>TPH</u> fp <u>VOC</u> 's MTBE	Other: See SOW
Equipment Blank I.D.: EB-2 [@] Time 1530	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MA1	Client: KMEP
Sampler: MA	Start Date: 7/14/10
Well I.D.: MW-SF-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 44.31	Depth to Water: Pre: 31.37 Post: 31.49
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: 0906 Flow Rate: 500ml/min Pump Depth: 42'

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
0909	26.43	6.85	1519	21	2.87	-111.9	1500	31.42
0912	27.22	6.85	1528	18	1.70	-123.5	3000	31.46
0915	27.54	6.85	1571	18	1.27	-136.3	4500	31.48
0918	27.70	6.86	1574	12	1.19	-142.6	6000	31.49
0921	27.84	6.87	1583	9	1.14	-145.6	7500	31.49
0924	28.03	6.88	1590	8	1.10	-146.5	9000	31.49

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 9000 mL
Sampling Time: 0925	Sampling Date: 7/14/10
Sample I.D.: MW-SF-4	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHfp VOC's MTBE	Other: See Saw
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MW1	Client: KMEP
Sampler: MW	Start Date: 7/12/10
Well I.D.: WCW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 50.39	Depth to Water: Pre: 29.06 Post: 29.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: (SI 556)

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1431 Flow Rate: 500ml/min Pump Depth: 45'

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
1434	22.17	7.02	3013	4	2.88	55	1500	29.19
1437	22.08	6.94	3095	4	2.14	10	3000	29.20
1440	22.28	6.90	3111	4	1.71	-16	4500	29.20
1443	22.70 22.70	6.92	3113	4	1.18	-35	6000	29.20
1446	22.88	6.92	3116	4	1.14	-41	7500	29.20
1449	22.93	6.92	3113	4	1.10	-44	9000	29.20

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 9000 ml
Sampling Time: 1450	Sampling Date: 7/12/10
Sample I.D.: WCW-3	Laboratory: Alpha Analytical
Analyzed for: TPHg TPHp VOC's MTBE	Other: See SOW
Equipment Blank I.D.: EB-1 @ Time 1500	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100712-MN1</u>	Client: <u>KMEP</u>
Sampler: <u>MN</u>	Start Date: <u>7/13/10</u>
Well I.D.: <u>WCW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>51.48</u>	Depth to Water: Pre: <u>29.29</u> Post: <u>29.74</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1053 Flow Rate: 250 500 mL/min Pump Depth: 48'

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
1056	25.09	6.94	3818	16	3.29	82.8	1500 750	29.68
1059	25.24	6.93	3816	15	2.96	78.0	3000 1500	29.74
1102	25.98	6.92	3839	14	2.01	76.0	2250	29.74
1105	26.64	6.91	3852	12	1.58	74.7	3000	29.74
1108	27.07	6.91	3860	11	1.79	72.3	3750	29.74
1111	27.72	6.90	3860	10	1.34	71.1	4500	29.74
1114	27.45	6.90	3862	10	1.30	69.5	5250	29.74

Did well dewater? Yes <input type="checkbox"/> <input checked="" type="checkbox"/> No	Amount actually evacuated: <u>5250 mL</u>
Sampling Time: <u>1115</u>	Sampling Date: <u>7/13/10</u>
Sample I.D.: <u>WCW-7</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <input checked="" type="checkbox"/> TPHg <input checked="" type="checkbox"/> TPHp <input checked="" type="checkbox"/> VOCs <input type="checkbox"/> MTBE	Other: <u>See SOW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MMI	Client: KMEP
Sampler: Mu	Start Date: 7/12/10
Well I.D.: WCW-13	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 60.37	Depth to Water: Pre: 30.68 Post: 31.4
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: 1201 Flow Rate: 500 ml/min Pump Depth: 55'

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
1204	23.04	7.28	²⁴⁴² 63 <u>63</u>	128	1.04	63	1500	31.02
1207	23.22	7.22	2446	95	0.64	49	3000	31.04
1210	23.26	7.17	2448	90	0.57	47	4500	31.07
1213	23.70	<u>7.18</u>	2444	55	0.44	30	6000	31.10
1216	23.74	7.20	2447	52	0.40	26	7500	31.11
1219	24.01	7.20	2448	50	0.38	22	9000	31.11

Did well dewater? Yes <input type="radio"/> <u>(No)</u>	Amount actually evacuated: <u>9000 ml</u>
Sampling Time: <u>1220</u>	Sampling Date: <u>7/12/10</u>
Sample I.D.: <u>WCW-13</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>(TPH)</u> g <u>(TPH)</u> f <u>(VOC)</u> s <u>(MTBE)</u>	Other: <u>See SOW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100712-MR1</u>	Client: <u>KMEP</u>
Sampler: <u>MR</u>	Start Date: <u>7/14/10</u>
Well I.D.: <u>PZ-5</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>37.97</u>	Depth to Water: Pre: <u>26.09</u> Post: <u>26.51</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 _____
 Start Purge Time: 0754 Flow Rate: 500ml/min Pump Depth: 35'

Time	Temp. (Cor °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
0757	21.00	6.82	2662	4	3.25	-67.8	1500	26.40
0800	21.38	6.83	2662	4	2.24	-70.3	3000	26.47
0803	21.67	6.85	2661	5	1.76	-71.2	4500	26.50
0806	22.00	6.86	2670	4	1.65	-72.1	6000	26.51
0809	22.33	6.86	2673	4	1.58	-69.9	7500	26.51

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>7500 ml</u>
Sampling Time: <u>0810</u>	Sampling Date: <u>7/14/10</u>
Sample I.D.: <u>PZ-5</u>	Laboratory: <u>Alpha Analytical</u>
Analyzed for: <u>TPHg</u> <u>TPH_{sp}</u> <u>VOC's</u> <u>MTBE</u>	Other: <u>See SOW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: <u>DUP-2</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 3

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

Report to:
Thandar Phyu
AMEC Geomatrix, Inc.
510 Superior Ave. Suite 200
Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

"Conform to the RWQCB's General Laboratory Testing Requirements for Petroleum Hydrocarbon Impacted Sites (September 2006) and MDL requirement for TPHg of between 50 to 100 ug/L."

SAMPLE I.D.	DATE	TIME	MATRIX	#	Preservation	Type	CONDUCT ANALYSIS TO DETECT				ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
							TPHg, TPHp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)						
EXP-1	7/12/10	0844	AQ	6	HCl	VOCs	X	X						
EXP-2	7/12/10	1027					X	X						
EXP-3	7/12/10	0936					X	X						
EXP-5	7/12/10	1350					X	X						
GMW-0-1	7/12/10	1134					X	X						
GMW-0-2	7/13/10	1203					X	X						
GMW-0-3	7/12/10	1305					X	X						
GMW-0-14	7/14/10	1025					X	X						
GMW-0-15	7/13/10	0905					X	X						
GMW-0-16	7/13/10	1247					X	X						

RESULTS NEEDED NO LATER THAN

Standard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	7/14/10	1200			
RELEASED BY			RECEIVED BY		
RELEASED BY			RECEIVED BY		
RELEASED BY			RECEIVED BY		
SHIPPED VIA			COOLER #		

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7774
 PHONE (408) 573-0555

LAB Alpha Analytical COC 2 of 3
 Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Report to:
 Thandar Phyu
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT Kinder Morgan
 SITE DFSP Norwalk
 15306 Norwalk Blvd, Norwalk

"Conform to the RWQCB's General Laboratory Testing Requirements for Petroleum Hydrocarbon Impacted Sites (September 2006) and MDL requirement for TPHg of between 50 to 100 ug/L."

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		CONDUCT ANALYSIS TO DETECT		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation Type	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)				
GMW-0-18	7/14/10	0730	AQ	6	HCl vials	X	X				
GMW-0-19	7/13/10	0828				X	X				
GMW-36	7/13/10	0930				X	X				
GMW-38	7/13/10	1014				X	X				
GMW-39	7/13/10	1330				X	X				
MW-SF-1	7/13/10	1516				X	X				
MW-SF-4	7/14/10	0925				X	X				
WCW-3	7/12/10	1450				X	X				
WCW-7	7/13/10	1115				X	X				
WCW-13	7/12/10	1220				X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RECEIVED BY	TIME	DATE	TIME
7/14/10		1200		<i>[Signature]</i>	1200		
				<i>[Signature]</i>			
				<i>[Signature]</i>			

RESULTS NEEDED NO LATER THAN Standard

SHIPPED VIA _____ COOLER # _____

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



CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	#	Preservation	Type	CONDUCT ANALYSIS TO DETECT			STATUS	CONDITION	LAB SAMPLE #
							TPHg, TPHp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)				
PZ-5	7/14/10	0810	AQ	6	HCl	VOCS	X	X				
DUP-1	7/14/10	-					X	X				
DUP-2	7/14/10	-					X	X				
DUP-3	7/14/10	-					X	X				
EB-1	7/12/10	1500					X	X				
EB-2	7/13/10	1530					X	X				
EB-3	7/14/10	1035					X	X				
TB-1	7/12/10	0725					X	X				

RESULTS NEEDED NO LATER THAN **Standard**

RELEASED BY  TIME 1200 RECEIVED BY  TIME 1200 DATE

RELEASED BY  TIME RECEIVED BY  TIME DATE

RELEASED BY  TIME RECEIVED BY  TIME DATE

SHIPPED VIA TIME SENT COOLER #

LAB Alpha Analytical COC 3 of 3
 Billing Information: Report to:
 Kinder Morgan Thandar Phyu
 1100 Town and Country Rd. AMEC Geomatrix, Inc.
 Orange CA 95112 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

Conform to the RWQCB's General Laboratory Testing Requirements for Petroleum Hydrocarbon Impacted Sites (September 2006) and MDL requirement for TPHg of between 50 to 100 ug/L.

WELLHEAD INSPECTION CHECKLIST

Client KMEP @ Norwalk Date 7-12-10
 Site Address 15306 Norwalk Blvd., Norwalk
 Job Number 100712-M21 Technician Jon Renaud

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
EXP-1	x	Stand pipe								
EXP-2	x	Stand pipe								
EXP-3	x	Stand pipe								
EXP-5	x	x	x							
GMW-0-1	x	x	x							
WCW-13	x	x	x							
GMW-0-3	x	x	x							
WCW-3	x	x	x							
GMW-0-19	x	x	x							
GMW-0-15	x	Rectangular Vault								
GMW-36	x	Square Vault								
GMW-38	x	Stand pipe								
WCW-7	x	x	x							
GMW-0-2	x	x	x							
GMW-0-16	x	x	x							
GMW-39	x	Stand pipe								
MW-SF-1	x	Stand pipe								

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client KMEP @ Norwalk Date 7/12/10
 Site Address 15306 Norwalk Blvd., Norwalk
 Job Number 100712-M21 Technician Jon Renard

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
G1MW-0-18	X		Rectangular Vault							
PZ-5	X	X	X							
MW-SF-4	X		Stand pipe							
G1MW-0-14	X	X	X							

NOTES: _____

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME		KMEP @ Norwalk		PROJECT NUMBER		100712 - MM	
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. (°C)	INITIALS
YSI 556	06F13662AR	7-12-10 0736	pH 7.0 10.0	7.70	Yes	22.22	MF
↓	↓	↓	Cond 3900	4.55	↓	22.41	↓
↓	↓	↓	ORP 234.0	236.5	↓	22.27	↓
↓	↓	↓	DO 100%	110.8%	↓	21.95	↓
Myron L ultraflow	6215729	7-12-10 0800	pH 7.0 10.0	7.00 10.00	Yes	22.20 22.21	MM
↓	↓	↓	4.0	4.00	↓	22.22	↓
YSI 556	06F13662AR	7-13-10 0740	pH 7.0 10.0	7.12 10.09	Yes	23.19 23.39	MM
↓	↓	↓	4.0	4.00	↓	23.07	↓
↓	↓	↓	Cond. 3900	389%	↓	23.10	↓
↓	↓	↓	ORP 232.5	235.3	↓	23.70	↓
↓	↓	↓	DO 100%	89.47%	↓	25.13	↓
YSI 556	06F13662AR	7-14-10 0708	pH 7.0 10.0	6.85 10.10	Yes	24.51 24.26	MM
↓	↓	↓	4.0	3.94	↓	24.13	↓
↓	↓	↓	Cond. 3900	3908	↓	23.96	↓
↓	↓	↓	ORP 232.0	231.0	↓	24.24	↓
↓	↓	↓	DO 100%	68.37%	↓	23.80	↓

WELL GAUGING DATA

Project # 102712.MH1

Date 7/12/10

Client PARSONS @ DFSP

Site Excelsior Dr. & Newark Blvd. Newark CA.

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
EXP-3	0940	4					54.60	123.76		7/12/10
EXP-1	0935	4					55.28	128.65		
EXP-2	0930	4					55.84	128.06		
MW-22 (m10) A46 ZEMO	1028	4					34.00	57.91		
MW-14	1110	4					31.64	51.74		
GMW-64	1200	4					27.74	40.08		
GMW-65	1250	4					29.00	40.90		
GMW-62	1340	4	ODOR				28.52	40.00		7/12/10
GMW-63	0728	4					29.61	40.00		7/13/10
GMW-61	0828	4					27.80	39.44		
GMW-60	0920	4					28.40	40.00		
GMW-47	1018	4					28.32	50.41		
GMW-57	1105	4					28.93	53.98		
GMW-58	1260	4					26.63	54.44		
GMW-59	1255	4	ODOR				26.10	54.66	✓	7/13/10

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: Parsons @ BFP Normal
Sampler: M. Hensel	Gauging Date: 7/12/10
Well I.D.: EXP-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 178.65	Depth to Water: 55.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC ¹ Grade	Flow Cell Type: YSI 532

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

Start Purge Time: 0941 Flow Rate: 300 mL/min Pump Depth: 102'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0944	22.4	7.41	1101	5	1.23	-144.9	900	55.36
0947	22.3	7.38	1100	4	0.86	-135.7	1200	55.36
0950	22.5	7.36	1101	4	0.51	-108.6	2700	55.36
0953	22.3	7.35	1101	4	0.42	-100.6	3600	55.36
0956	22.3	7.35	1100	4	0.39	-99.1	4500	55.36
0959	22.3	7.35	1101	4	0.37	-98.9	5400	55.36
1002	22.3	7.35	1100	4	0.37	-98.7	6300	55.36
1005	22.3	7.35	1100	4	0.36	-98.4	7200	55.36
1006	PARAMETERS STABLE; collect sample							

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7200 mL
Sampling Time: 1006	Sampling Date: 7/12/10
Sample I.D.: EXP-1	Laboratory: CAL SCIENCE
Analyzed for: TPH-G <input type="radio"/> BTEX <input checked="" type="radio"/> MTBE <input checked="" type="radio"/> TPH-D	Other: VOCs + TMSA; JP5
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

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LOW FLOW WELL MONITORING DATA SHEET

Project #: 100412-MH1	Client: PARSONS CDPS NETWORK
Sampler: M. Housler	Gauging Date: 7/12/10
Well I.D.: EXP-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 128.00	Depth to Water: 55.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI 530

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0846 Flow Rate: 300 mL/min Pump Depth: 105'

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	21.9	7.22	1636	7	0.84	-126.6	900	55.88
0852	21.9	7.21	1640	6	0.73	-116.8	1800	55.88
0855	22.0	7.20	1646	6	0.54	-92.9	2700	55.88
0858	21.9	7.20	1645	5	0.45	-81.7	3600	55.88
0902	21.9	7.20	1643	4	0.41	-80.2	4500	55.88
0905	22.0	7.20	1642	4	0.38	-77.3	5400	55.88
0908	22.0	7.20	1642	4	0.35	-76.1	6300	55.88
0911	22.0	7.20	1642	4	0.35	-76.1	7200	55.88
0912	PARAMETERS STABLE; COLLECT SAMPLE							

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7200 mL
Sampling Time: 0912	Sampling Date: 7/12/10
Sample I.D.: EXP-2	Laboratory: CAL SCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: VOCs + TBA; JP5 E015
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150712-MH1	Client: PARSONS
Sampler: M. House	Gauging Date: 7/12/10
Well I.D.: EXP-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 123.16	Depth to Water: 54.60
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: 0740 Flow Rate: 300 mL/min Pump Depth: 100'

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>mb</u>)	Depth to Water
0743	21.2	7.43	795	8	2.15	-146.2	900	54.63
0746	21.4	7.39	813	6	1.47	-113.3	1800	54.63
0749	21.5	7.39	820	5	1.14	-85.9	2700	54.63
0752	21.5	7.39	822	4	0.91	-66.9	3600	54.63
0755	21.5	7.39	821	4	0.84	-63.2	4500	54.63
0758	21.5	7.39	821	4	0.74	-55.7	5400	54.63
0801	21.5	7.39	820	4	0.66	-50.5	6300	54.63
0804	21.5	7.39	820	4	0.64	-50.2	7200	54.63
0807	21.5	7.39	820	4	0.64	-50.4	8100	54.63
0808	PARAMETERS STABLE; COLLECT SAMPLE							

Did well dewater? Yes No Amount actually evacuated: 8100 mL

Sampling Time: 0808 Sampling Date: 7/12/10

Sample I.D.: EXP-3 Laboratory: PALSCIENCE

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SPS, VOC'S + TMSA

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

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LOW FLOW WELL MONITORING DATA SHEET

Project #: 150712-MH1	Client: PARSONS @ DFP NORWALK
Sampler: M. House	Gauging Date: 7/12/10
Well I.D.: MW-14	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 51.74	Depth to Water: 31.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YS1552e

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1113 Flow Rate: 300 mL/min Pump Depth: 39.8'

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
1116	23.0	6.98	1407	6	0.61	-121.1	900	31.67
1119	22.7	6.96	1401	4	0.51	-124.5	1200	31.67
1122	22.7	6.96	1400	3	0.55	-126.7	2700	31.67
1125	22.6	6.96	1398	2	0.41	-129.4	3600	31.67
1128	22.7	6.96	1399	2	0.33	-130.7	4500	31.67
1131	22.7	6.96	1397	2	0.28	-132.1	5400	31.67
1134	22.7	6.96	1397	2	0.27	-132.3	6300	31.67
1137	22.7	6.96	1398	2	0.28	-132.6	7200	31.67
1138	PARAMETERS STABLE; COLLECT SAMPLE							

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 7200 mL
Sampling Time: 1138	Sampling Date: 7/12/10
Sample I.D.: MW-14	Laboratory: VOC'S + TSSA ; JPS
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other:
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150712-MH1	Client: PARSONS & DFSP NORWALK
Sampler: <i>NAH/mv</i>	Gauging Date: 7/12/10
Well I.D.: mw-22(mid)	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 57.91	Depth to Water: 34.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 550</u>

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

Start Purge Time: 1029 Flow Rate: 300 mL/min Pump Depth: 47'

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	22.3	7.16	2130	7	0.33	-168.5	900	34.02
1035	22.3	7.16	2132	5	0.28	-171.4	1800	34.02
1038	22.3	7.16	2141	4	0.38	-170.7	2700	34.06
1041	22.2	7.15	2144	3	0.49	-170.3	3600	34.06
1044	22.3	7.15	2150	3	0.36	-170.3	4500	34.06
1047	22.3	7.15	2150	3	0.36	-170.5	5400	34.06
1050	22.3	7.15	2152	3	0.34	-170.4	6300	34.06
1051	PARAMETERS STABLE; collect sample							

Did well dewater? Yes No

Amount actually evacuated: 6300 mL

Sampling Time: 1051 Sampling Date: 7/12/10

Sample I.D.: MW-22(MID) Laboratory: CAESURE

Analyzed for: TPH-G BTEX MTBE TPH-D Other: VOCS + TBA. JPS.

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 10D713-M41	Client: PARSONS CDPSP
Sampler: M. Hulse	Gauging Date: 7/13/10
Well I.D.: GMW 47	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 50.41	Depth to Water: 28.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSI 536</u>

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

Start Purge Time: 1019 Flow Rate: 300 ml/min Pump Depth: 39.1

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
1022	24.1	6.67	2155	11	2.31	-187.9	900	28.36
1025	24.2	6.66	2155	9	1.99	-193.6	1800	28.39
1028	24.1	6.65	2151	7	1.29	-199.7	2700	28.39
1031	24.1	6.65	2148	5	0.98	-204.4	3600	28.39
1034	24.0	6.64	2146	5	0.86	-207.0	4500	28.39
1037	24.2	6.64	2152	3	0.72	-209.6	5400	28.39
1040	24.4	6.64	2156	3	0.69	-210.5	6300	28.39
1043	24.4	6.64	2157	3	0.67	-210.7	7200	28.39
1046	24.4	6.64	2157	3	0.67	-210.6	8100	28.39
1047	PARAMETERS STABLE; collect sample							

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 8100 mL
Sampling Time: 1047	Sampling Date: 7/13/10
Sample I.D.: GMW-47	Laboratory: CA Science
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D	Other: VOC'S + TMSA; SP5
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: PARSONS & PDP ANNAK
Sampler: M. Houser	Gauging Date: 7/13/10
Well I.D.: GMW-57	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 53.98	Depth to Water: 28.93
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YS1556</u>

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

Start Purge Time: 1107 Flow Rate: 300 mL/min Pump Depth: 41.4'

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
1110	26.4	7.23	1429	18	1.36	-1443	900	28.99
1113	26.0	7.22	1438	10	1.10	-152.6	1800	28.99
1116	25.7	7.22	1447	9	0.84	-153.0	2700	28.99
1119	25.6	7.21	1453	9	0.88	-148.6	3600	28.99
1122	25.6	7.21	1483	8	0.91	-145.3	4500	28.99
1125	25.6	7.21	1455	8	0.94	-144.8	5400	28.99
1128	25.6	7.21	1456	8	0.94	-143.6	6300	28.99
1129	Parameters sample; collect sample							

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>6300</u> mL
Sampling Time: <u>1129</u>	Sampling Date: <u>7/13/10</u>
Sample I.D.: <u>GMW-57</u>	Laboratory: <u>CAE Science</u>
Analyzed for: TPH-G BTEX <u>MTBE</u> TPH-D	Other: <u>VOC's + TMSA; JPS</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 107712-MH1	Client: PARSONS & DFSP
Sampler: M. Hines	Gauging Date: 7/13/10
Well I.D.: Gmw-58	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 54.44	Depth to Water: 26.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: 481556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1208 Flow Rate: 300 mL/min Pump Depth: 40.3' ~~20.55'~~

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
1211	24.1	7.28	1292	6	0.60	-170.6	900	26.66
1214	24.0	7.28	1293	5	0.43	-179.0	1800	26.66
1217	23.9	7.29	1292	3	0.41	-183.8	2700	26.66
1220	23.9	7.29	1289	3	0.42	-185.3	3600	26.66
1223	23.8	7.29	1287	3	0.44	-186.1	4500	26.66
1226	23.9	7.29	1290	3	0.46	-186.9	5400	26.66
1229	23.9	7.29	1289	3	0.46	-187.1	6300	26.66
1230	PARAMETERS STABLE; collect sample							

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 6300 mL
Sampling Time: 1230	Sampling Date: 7/13/10
Sample I.D.: Gmw-58	Laboratory: CALSCIENCE
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: VOC'S + TBA; JPS
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.: Gmw-58/DUP

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: PARSONS @ DFSP Newark
Sampler: M. House	Gauging Date: 7/13/10
Well I.D.: GMLW-59	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 54.66	Depth to Water: 26.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: Eye Grade	Flow Cell Type: YS1526

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other
Start Purge Time: 1257	Flow Rate: 300 mL/min	Pump Depth: 40.3

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
1300	23.0	6.78	1562	6	1.12	-247.8	900	26.14
1303	23.0	6.78	1561	7	1.33	-250.1	1800	26.14
1306	23.0	6.79	1561	7	1.50	-263.5	2700	26.14
1309	23.0	6.79	1561	5	1.32	-265.5	3600	26.14
1312	23.0	6.79	1559	4	1.11	-267.5	4500	26.14
1315	23.0	6.78	1555	4	0.52	-276.4	5400	26.14
1318	22.9	6.78	1558	4	0.34	-279.7	6300	26.14
1321	22.9	6.77	1557	4	0.29	-281.3	7200	26.14
1324	22.9	6.76	1555	3	0.29	-280.6	8100	26.14
1327	22.9	6.76	1555	3	0.27	-282.7	9000	26.14
1328	- Parametric test started; collect sample							

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 9000 mL
Sampling Time: 1328	Sampling Date: 7/13/10
Sample I.D.: GMLW-59	Laboratory: CALSCLONCO
Analyzed for: TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH-D	Other: VOC'S + TBA + NPS
Equipment Blank I.D.: @ Time	Duplicate I.D.: GMLW-59 Dup

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LOW FLOW WELL MONITORING DATA SHEET

Project #: 105713-MH1	Client: PARSONS @ DFSP Newark
Sampler: M. Huse	Gauging Date: 7/13/10
Well I.D.: GMW-60	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 40.00	Depth to Water: 28.40
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: 0926 Flow Rate: 300 ml/min Pump Depth: 35'

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
0929	22.5	7.04	2442	16	1.03	-244.7	900	28.44
0932	22.4	7.00	2436	10	1.44	-257.8	1800	28.44
0935	22.4	6.99	2435	8	1.25	-261.5	2700	28.44
0938	22.4	6.99	2436	7	1.11	-263.6	3600	28.44
0941	22.4	6.97	2436	5	0.92	-270.1	4500	28.44
0944	22.4	6.97	2436	5	0.79	-272.9	5400	28.44
0947	22.4	6.97	2436	4	0.79	-273.6	6300	28.44
0950	22.4	6.97	2436	4	0.78	-274.0	7200	28.44
0951	PARAMETERS STABLE; collect sample							

Did well dewater? Yes No Amount actually evacuated: 7200 mL

Sampling Time: 0951 Sampling Date: 7/13/10

Sample I.D.: GMW-60 Laboratory: CAESCIENCO

Analyzed for: TPH-G BTEX MTBE TPH-D Other: VOCs+TPSA+JPAs

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 105712-M44	Client: PARSONS @ DFSP AUMARK
Sampler: M. Huse	Gauging Date: 7/13/10
Well I.D.: GML 61	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: 39.44	Depth to Water: 27.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type: YSL556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 0839 Flow Rate: 300 mL/min Pump Depth: 34.7

Time	Temp. (C or F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0842	22.4	7.11	2529	29	0.54	-315.9	900	27.83
0845	22.3	7.06	2506	14	1.41	-320.8	1800	27.83
0848	22.3	7.06	2500	11	1.23	-320.9	2700	27.83
0851	22.4	7.06	2499	8	0.98	-321.3	3600	27.83
0854	22.4	7.05	2497	6	0.96	-322.8	4500	27.83
0857	22.4	7.05	2498	5	0.91	-323.4	5400	27.83
0900	22.4	7.05	2473	5	0.88	-323.1	6300	27.83
0903	22.4	7.05	2465	4	0.87	-323.8	7200	27.83
0906	22.4	7.05	2468	4	0.86	-324.2	8100	27.83
0907	PARAMETERS SAMPLE, collect sample							

Did well dewater? Yes (No) Amount actually evacuated: 8100 M
 Sampling Time: 0907 Sampling Date: 7/13/10
 Sample I.D.: GML-61 Laboratory: CAESCIENCE
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: VOCS + TMSA + GPS
 Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: PARSONS & BRINCKERHOFF NORWALK
Sampler: M. House	Gauging Date: 7/12/10
Well I.D.: GMW-62	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 40.00	Depth to Water: 28.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 330</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1344 Flow Rate: 300 ml/min Pump Depth: 34.2'

Time	Temp. (C or F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water	
1347	21.2	6.95	2852	7	0.48	-287.2	900	28.56	
1350	21.1	6.94	2851	5	0.38	-296.4	1800	28.56	
1353	21.1	6.93	2845	4	0.38	-303.5	2700	28.56	
1356	21.1	6.93	2842	4	0.32	-310.9	3600	28.56	
1359	21.1	6.93	2846	3	0.30	-314.8	4500	28.56	
1402	21.1	6.92	2840	3	0.26	-321.6	5400	28.56	
1405	21.1	6.91	2840	3	0.26	-322.1	6300	28.56	
1408	21.1	6.91	2840	3	0.27	-324.1	7200	28.56	
1409	PARAMETERS STABLE; collect sample								

Did well dewater? Yes No Amount actually evacuated: 7200 mL
 Sampling Time: 1409 Sampling Date: 7/12/10
 Sample I.D.: GMW-62 Laboratory: CML SCIENCE
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____
 Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: PARSONS @ DFSP NEWARK
Sampler: M. House	Gauging Date: 7/13/10
Well I.D.: GMW-63	Well Diameter: 2 3 (4) 6 8 _____
Total Well Depth: 40.00	Depth to Water: 29.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 536

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

Start Purge Time: 0729 Flow Rate: 300 mL/min Pump Depth: 34.8'

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
0732	19.2	6.94	1617	6	0.86	207.2	900	29.66
0735	19.2	6.98	1610	4	0.78	195.2	1800	29.66
0738	19.2	6.99	1605	3	0.91	189.4	2700	29.66
0741	19.2	7.00	1601	3	1.32	183.2	3600	29.66
0744	19.2	7.00	1600	3	2.01	177.6	4500	29.66
0747	19.2	7.02	1598	3	2.29	173.8	5400	29.66
0750	19.2	7.01	1599	3	1.97	166.8	6300	29.66
0753	19.2	7.04	1599	3	1.58	162.9	7200	29.66
0756	19.2	7.04	1601	3	1.54	159.4	8100	29.66
0759	19.2	7.04	1600	3	1.51	158.6	9000	29.66
0800	PARAMETERS SAMPLE; COLLECT SAMPLE							

Did well dewater? Yes No Amount actually evacuated: 9000 mL

Sampling Time: 0800 Sampling Date: 7/13/10

Sample I.D.: GMW-63 Laboratory: CALSCIENCE

Analyzed for: TPH-G BTEX MTBE TPH-D Other: VOCs + TMSA JPS

Equipment Blank I.D.: @ Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: PARSONS @ DFSP Acrowater
Sampler: M. Hausce	Gauging Date: 7/12/10
Well I.D.: GMLW 64	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 40.08	Depth to Water: 27.74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: Y51556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Start Purge Time: 1208 Flow Rate: 300 mL/min Pump Depth: 338' (20.40)

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
1211	20.0	6.94	1855	10	2.36	-3.5	900	27.78
1214	20.0	6.93	1855	9	2.32	-1.1	1200	27.80
1217	20.0	6.91	1854	9	2.30	3.2	2700	27.80
1220	19.9	6.91	1853	9	2.24	8.0	3600	27.80
1223	20.0	6.90	1851	6	2.22	11.9	4500	27.80
1226	20.0	6.90	1855	6	2.24	13.2	5400	27.80
1229	20.0	6.90	1855	6	2.28	13.8	6300	27.80
1232	20.0	6.90	1854	6	2.27	14.0	7200	27.80
1233	PARAMETRICS Stable; Collect Sample							

Did well dewater? Yes (No)	Amount actually evacuated: 7200 mL
Sampling Time: 1233	Sampling Date: 7/12/10
Sample I.D.: GMLW-64	Laboratory: CALSCIENCE
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: VOC + TBA; JP5
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100712-MH1	Client: Parsons @ DFSP Norwalk
Sampler: M. Huser	Gauging Date: 7/12/10
Well I.D.: GMLW-65	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 40.90	Depth to Water: 29.00
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: 1254 Flow Rate: 300 mL/min Pump Depth: 34.5

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
1257	20.6	6.92	2921	11	0.78	11.1	900	29.03
1300	20.7	6.91	2929	7	0.66	9.5	1800	29.03
1303	20.6	6.91	2926	7	0.62	8.8	2700	29.03
1306	20.5	6.91	2926	5	0.59	7.6	3600	29.03
1309	20.5	6.91	2926	5	0.54	6.6	4500	29.03
1312	20.5	6.91	2926	5	0.51	6.4	5400	29.03
1315	20.5	6.91	2926	5	0.52	6.3	6300	29.03
1316	Parameters stable; collect sample							

Did well dewater? Yes No Amount actually evacuated: 6300 mL
 Sampling Time: 1316 Sampling Date: 7/12/10
 Sample I.D.: GMLW-65 Laboratory: PAC Science
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: VOCs+TBA; JP5
 Equipment Blank I.D.: @ _____ Time Duplicate I.D.: _____



Calscience Environmental Laboratories, Inc.
 SoCal Laboratory
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 (714) 895-5494
 NorCal Service Center
 5063 Commercial Circle, Suite H
 Concord, CA 94520-8577
 (925) 688-9022

CHAIN OF CUSTODY RECORD

Date July 12, 2010
 Page 1 of 1

LABORATORY CLIENT: PARSONS
 ADDRESS: 100 W. WAWUT ST
 CITY: PASADENA STATE: CA ZIP: 91101
 TEL: (626) 440-1030 E-MAIL: MARY.WUCAS@PARSONS.COM
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS 10 DAYS STANDARD
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING FORMS COELT EDF

SPECIAL INSTRUCTIONS: MATT

LAE USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		NO. OF CONT.
			DATE	TIME	
	TB	-	7/12/10	0800	2
	EXP-3	-		0500	8
	EXP-2	-		0912	8
	EXP-1	-		1006	8
	MW-14	-		1138	8
	MW-22(MIN)	-		1051	8
	GMW-64	-		1233	8
	GMW-65	-		1310	8
	GMW-62	-	7/12/10	1401	8

TPH (g) EPA 8015	TPH (d) or (C7-C36) or (C7-C44)	TPH (ASPLK - E PA 8015)	BTEX / MTBE (8260B) or ()	VOCs (8260B) <u>INCLUDE BSLX MTHL TBA</u>	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PnAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [T-O-3] +
X		X		X										
		X		X										
		X		X										
		X		X										
		X		X										
		X		X										
		X		X										
		X		X										

REQUESTED ANALYSES

CLIENT PROJECT NAME / NUMBER: 740442 OESAN WEWALK GUM P.O. NO.: _____
 PROJECT CONTACT: MARY WUCAS
 SAMPLER(S) (PRINT): MTHL TBA (TECH) COELT LOG CODE: _____
 COOLER RECEIPT: _____ TEMP: _____ °C

Received by: (Signature/Affiliation) _____ Date: 7/12/10 Time: 1530
 Relinquished by: (Signature) MTHL TBA
 Received by: (Signature/Affiliation) _____ Date: 7/12/10 Time: 16:10
 Relinquished by: (Signature) _____ Date: _____ Time: _____

Calscience Environmental Laboratories, Inc.
 80Cal Laboratory
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 (714) 895-5494

NorCal Service Center
 5063 Commercial Circle, Suite H
 Concord, CA 94520-8577
 (925) 689-9022

CHAIN OF CUSTODY RECORD

Date: July 13, 2010

Page 1 of 1

LABORATORY CLIENT: PARSONS		CLIENT PROJECT NAME / NUMBER: 746442 DFSPMBAWALK GUM		P.O. NO.:																		
ADDRESS: 100 W. WALNUT ST		PROJECT CONTACT: MARY LUCAS		LAB USE ONLY																		
CITY: PASADENA		STATE: CA		ZIP: 91134																		
TEL: 626 440-6033		E-MAIL: MARY.LUCAS@PARSONS.COM		COOLER RECEIPT																		
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input checked="" type="checkbox"/> 72 HR		SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		TEMP: <u> </u> °C																		
<input type="checkbox"/> RWCCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>		SPECIAL INSTRUCTIONS:		COELT LOG CODE																		
REQUESTED ANALYSES																						
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g) (EPA 8210)	TPH (d) or (C6-C36) or (C8-C44)	TPH (AS-PS 8015)	BTEX / MTBE (8260B) or ()	VOCs (8260B) include BTEX, MTBE	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PnAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) (TO-3)+	
1	TSZ	---	7/13/10	0730	W	2																
2	GMLW-603	---	---	0800	W	8	X	X	X													
3	GMLW-60	---	---	0951	W	11	X	X	X													
4	GMLW-61	---	---	0907	W	11	X	X	X													
5	GMLW-47	---	---	1047	W	8	X	X	X													
6	GMLW-57	---	---	1129	W	8	X	X	X													
7	GMLW-59	---	---	1328	W	11	X	X	X													
8	GMLW-59 Dup	---	---	---	W	8	X	X	X													
9	GMLW-58	---	---	1230	W	8	X	X	X													
10	GMLW-58 Dup	---	7/13/10	---	W	8	X	X	X													
Relinquished by: (Signature) <i>M. Lucas</i>		Received by: (Signature/Affiliation) <i>CEL</i>		Date: <u>7/13/10</u>		Time: <u>1530</u>						Date: <u>7/13/10</u>		Time: <u>16:15</u>								
Relinquished by: (Signature) <i>M. Lucas</i>		Received by: (Signature/Affiliation) <i>D. Mungu</i>		Date: <u>7/13/10</u>		Time: <u>16:15</u>						Date: <u>7/13/10</u>		Time: <u>16:15</u>								
Relinquished by: (Signature) <i>M. Lucas</i>		Received by: (Signature/Affiliation) <i>D. Mungu</i>		Date: <u>7/13/10</u>		Time: <u>16:15</u>						Date: <u>7/13/10</u>		Time: <u>16:15</u>								

DISTRIBUTION: White with final report, Green and Yellow to Client. Please note that pages 1 and 2 of 2 of our TICs are printed on the reverse side of the Green and Yellow copies respectively.

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client PARSONS & DEFSP NORWALK Date 7/12/10

Site Address Excelsior Dr. & Norwalk Blvd

Job Number 100712-MH1 Technician M. Hansen

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
EXP-3	Stand Pipe w/		GAUDED POST							
EXP-2	↓		↓							
EXP-1	↓		↓							
MW-22(MID)	Stand Pipe		w/ GAUDED POST							
MW-14	↓		↓							
GMW-64	✓	X	X	X						
GMW-65	X	X	X							
GMW-62	X	X	X							
GMW-63	X	X	X							
GMW-61	X	X	X							
GMW-60	X	X	X							
GMW-47	X	- 2 bolts								
GMW-57	X	- 2 bolts								
GMW-58	VAULT LID									
GMW-59	VAULT LID									

NOTES: _____

DFSP Norwalk Quarterly GWM - July 2010
Gauging Data

Page _____ of _____

Well No.	Date	Time	DTP	DTW	Notes
GMW-20	07-08-2010	1015		27.49	
MW-28		1019		30.97	
MW-12		1023		28.25	
GMW-41		1026		26.99	
GMW-24 TF-10	MG	1029		27.52	
TF-10	MG	1037		26.12	
GMW-54		1044		27.53	
GMW-55		1046		27.03	
MW-11		1051		30.94	
TF-9		1056		26.96	
TF-8		1100	Sheen	27.71	
GW-7		1104		27.89	
TF-25		1107		27.49	
PZ-3		1110		28.73	
PZ-4		1113		28.73	
GMW-31		1115		29.24	
GMW-42		1119		28.01	
TF-11		1124		27.49	
GMW-17		1128		26.35	
TF-15		1134		27.89	
GMW-44		1138		27.18	
GMW-43		1141		26.98	
GMW-18		1143		27.69	
TF-14	↓	1145		27.29	

DFSP Norwalk Quarterly GWM - July 2010
Gauging Data

Page _____ of _____

Well No.	Date	Time	DTP	DTW	Notes	
GMW-7	07-08-2010	1151		28.46		
TF-13	↓	1154		28.49		
GMW-19		1157		29.41		
TF-16		1203		28.39	Piezometer - DRY	
TF-17		1207	Sheen	27.44		
TF-22		1212		26.44	piezometer	
GMW-35		1215		28.56		
TF-23		1218		27.51		
GW-14		1222		29.13		
TF-19		1237		27.94		
GMW-64		↓	1351		27.91	
		7-9-2010				
MW-26		↓	1050	sheen	30.38	
MW-22m			1058		34.16	
MW-25	1102			32.38		
GMW-40	1112			25.66		
TF-20	1131			28.31	Piezometer	
TF-21	1152			27.34		
GMW-62	12463		Sheen	28.65		
GMW-65	1256			29.16		
GMW-63	1310			29.74		
WCW-1	1342			25.43		
WCW-5	1347			25.96		
WCW-6	↓		1358		28.35	
GW-15			1413	SHEEN	28.14	

DFSP Norwalk Quarterly GWM - July 2010
Gauging Data

Page _____ of _____

Well No.	Date	Time	DTP	DTW	Notes	
GMW-5	0708-20	1544		30.46	NO COVER	
GMW-6	↓	1551		29.87		
GMW-56		1556		29.13		
GMW-45		1602		28.31		
GMW-15		1624		28.81		
EXP-3		↓	1732		54.89	
		7-9-2010				
MW-24	↓	0839		31.78		
GW-4					Need to Gauge Piezometer	
EXP.2		0854		56.12		
GW-2					Need to Gauge Piezometer	
MW-14		0909		31.91		
GW-13		0913		30.22		
GW-1		0918		29.24		
MW-10		0930		32.15		
GW-8		0935		29.19		
GMW-16		0943		29.85		
TF-24		0948		29.36		
MW-23M		0952		32.39		
GMW-21					No Reading 26'S (MEASURED)	
TF-26					Need to Clean out fill of weeds NOT SAFE COVER WAS OFF	
GW-6			1016		29.34	
GW-5			1020		30.05	
MW-27		↓	1044		31.19	

DFSP Norwalk Quarterly GWM - July 2010
Gauging Data

Page 1 of

Well No.	Date	Time	DTP	DTW	Notes
GMW-61	07-08-2010	0823		27.97	
GMW-60	↓	0828		28.72	
GW-16P		0834		29.18	
GW-16		0843		28.89	
GMW-66		0848		29.57	
MW-13		0853	sheen	30.89	Sheen
GMW-47		0900		28.55	
GMW 57		0903		29.20	
GMW 58		0907		27.22	
MW-17		0911		30.26	
EXP-1		0915		55.77	
GMW-59		0919		26.45	
GMW-48 ⁰⁸		0922		26.68	
MG TR 45- GMW-50		0926		27.92	BROKEN APRON/LID DESTROYED
GMW-51		0929		28.33	
GMW-33		0932		27.23	
GMW-53		0936		27.10	
MW-16		0940		29.10	
GMW-52		0948		27.21	
GMW-49		0954	sheen	26.14	TF-18?
MW-29		1001		31.48	
GMW-32	1004		26.91		
GMW-12	1007		27.30		
GMW-11	1011		25.49		