





February 24, 2012  
Cardno ERI 31104.11.Q114 Former Exxon Station 72454, Lacey, Washington

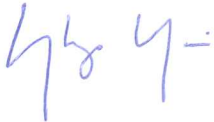
**ENCLOSURES:**

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Table 4 Operations and Maintenance Summary

Laboratory Analytical Report and Chain of Custody Documentation  
Field Data Records

Prepared By:

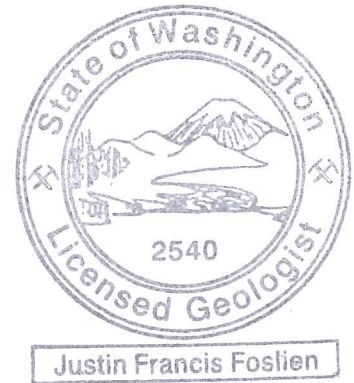


Shingo Yamazaki  
Staff Engineer  
for Cardno ERI  
Direct Line 206 394 7227  
Email: [shingo.yamazaki@cardno.com](mailto:shingo.yamazaki@cardno.com)

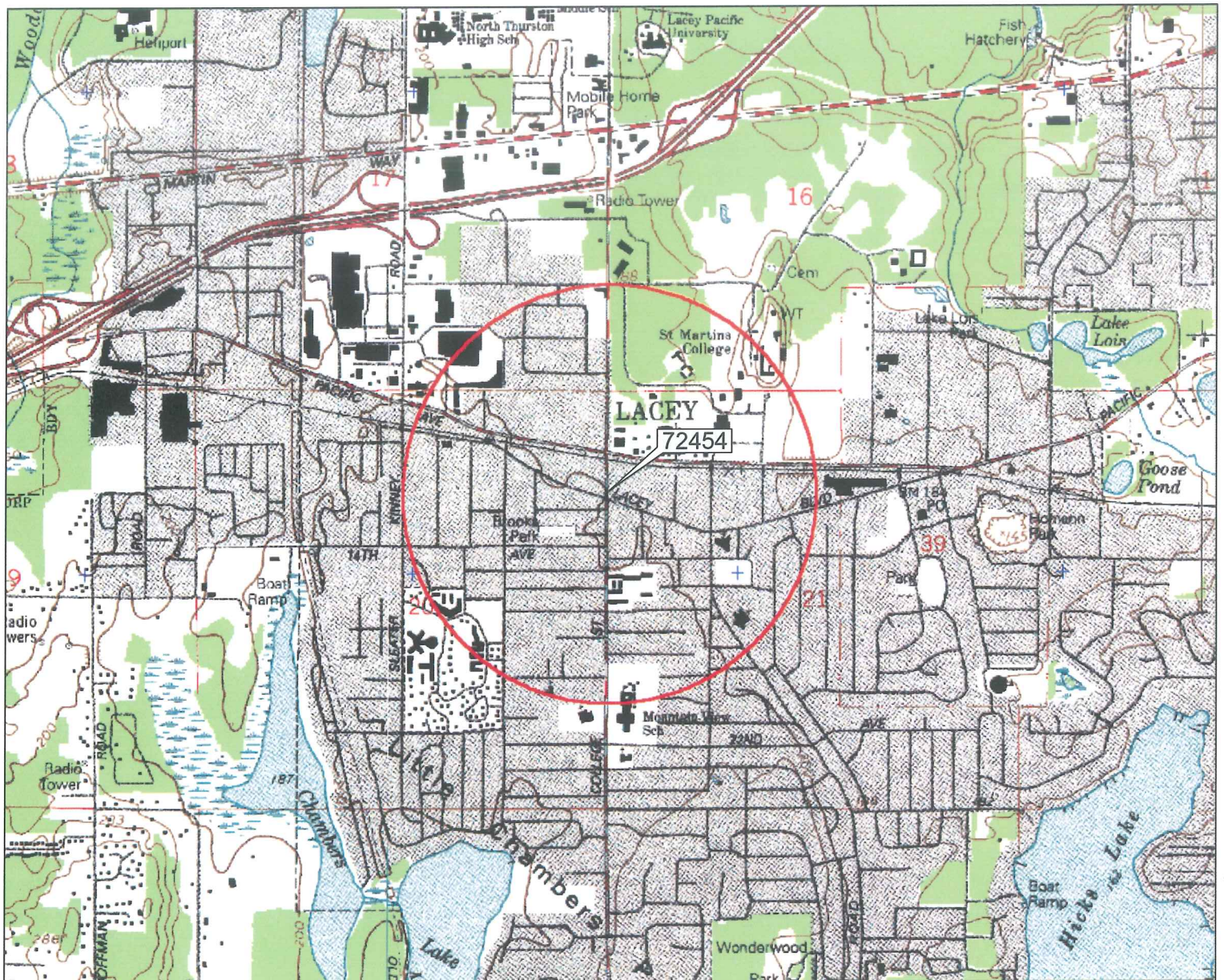
Reviewed By:



Justin Foslien, L.G. 2540  
Project Manager  
for Cardno ERI  
Direct Line 206 394 7230  
Email [justin.foslien@cardno.com](mailto:justin.foslien@cardno.com)







3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 544 Ft Scale: 1 : 19,200 Detail: 13-0 Datum: NAD27

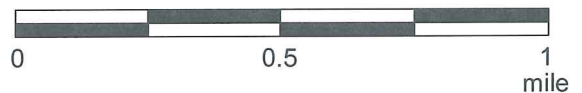
FN 311040001

**EXPLANATION**

 1/2-mile radius circle



**APPROXIMATE SCALE**



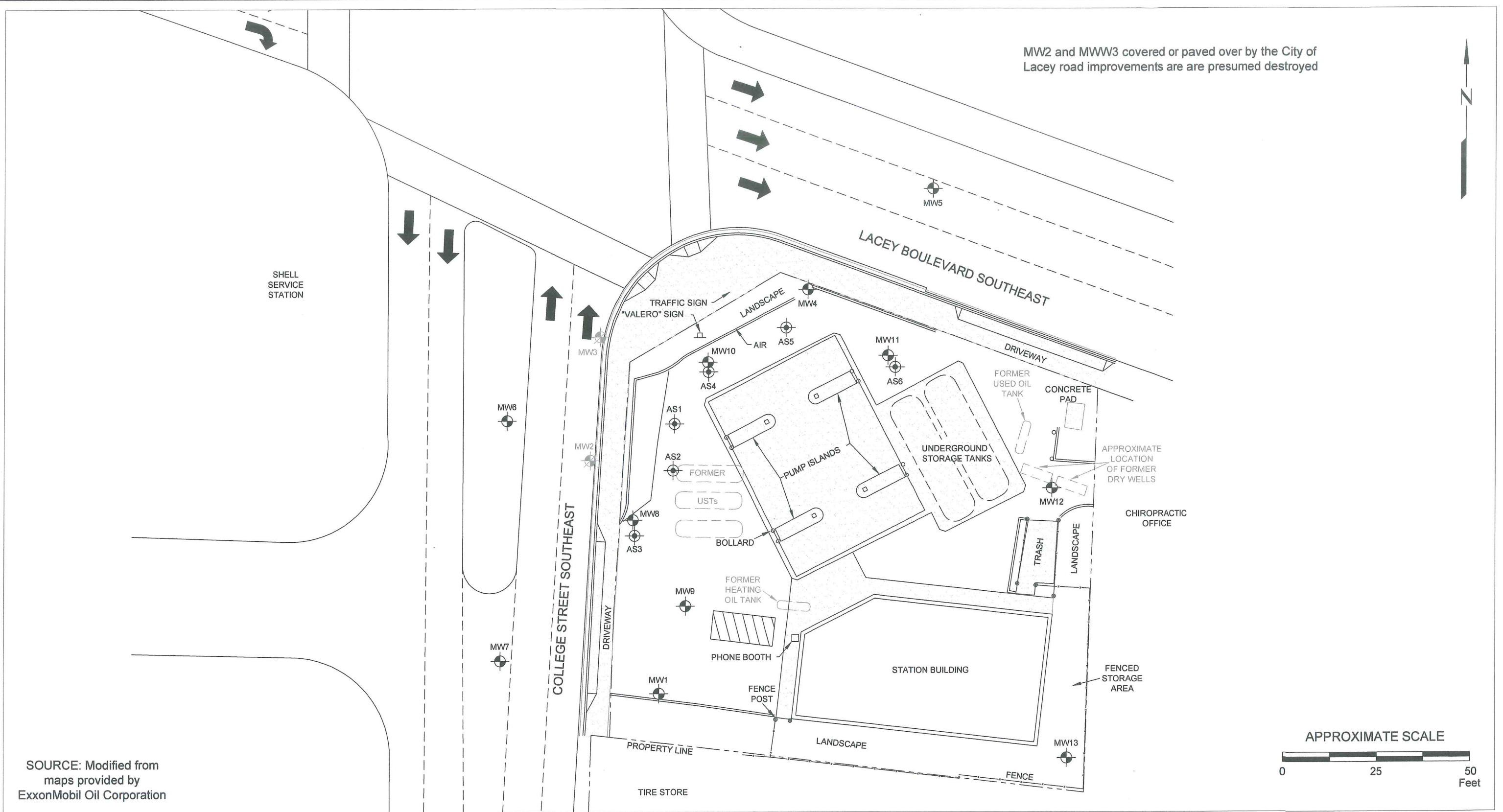
SOURCE:  
Modified from a map  
provided by  
DeLorme 3-D TopoQuads



**SITE LOCATION MAP**  
FORMER EXXON STATION 72454  
4603 Lacey Boulevard Southeast  
Lacey, Washington

**PROJECT NO.**  
31104  
**PLATE**  
1  
NAG: 11/02/11





SOURCE: Modified from maps provided by ExxonMobil Oil Corporation

FN 311040002



**GENERALIZED SITE PLAN**  
 FORMER EXXON STATION 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington

**EXPLANATION**

- MW13 Groundwater Monitoring Well
- AS6 Air Sparge Well
- MW3 Destroyed Groundwater Monitoring Well

Existing Concrete Surface

**PROJECT NO.**  
31104

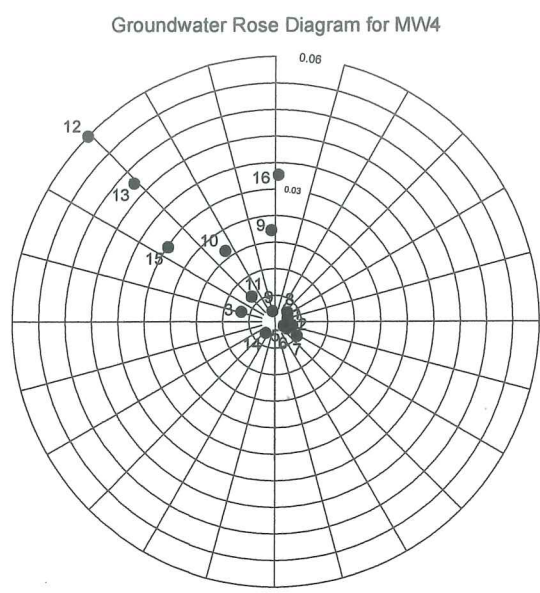
**PLATE**  
2

NAG: 11/02/11





● Numbers or Well Symbols in Red Indicate Dissolved Hydrocarbon Concentrations Which Exceed MTCA Method A Cleanup Levels  
 ● Numbers or Well Symbols in Blue Indicate Dissolved Hydrocarbon Concentrations Below MTCA Method A Cleanup Levels  
 ● No Data Available for Numbers and Well Symbols in Black



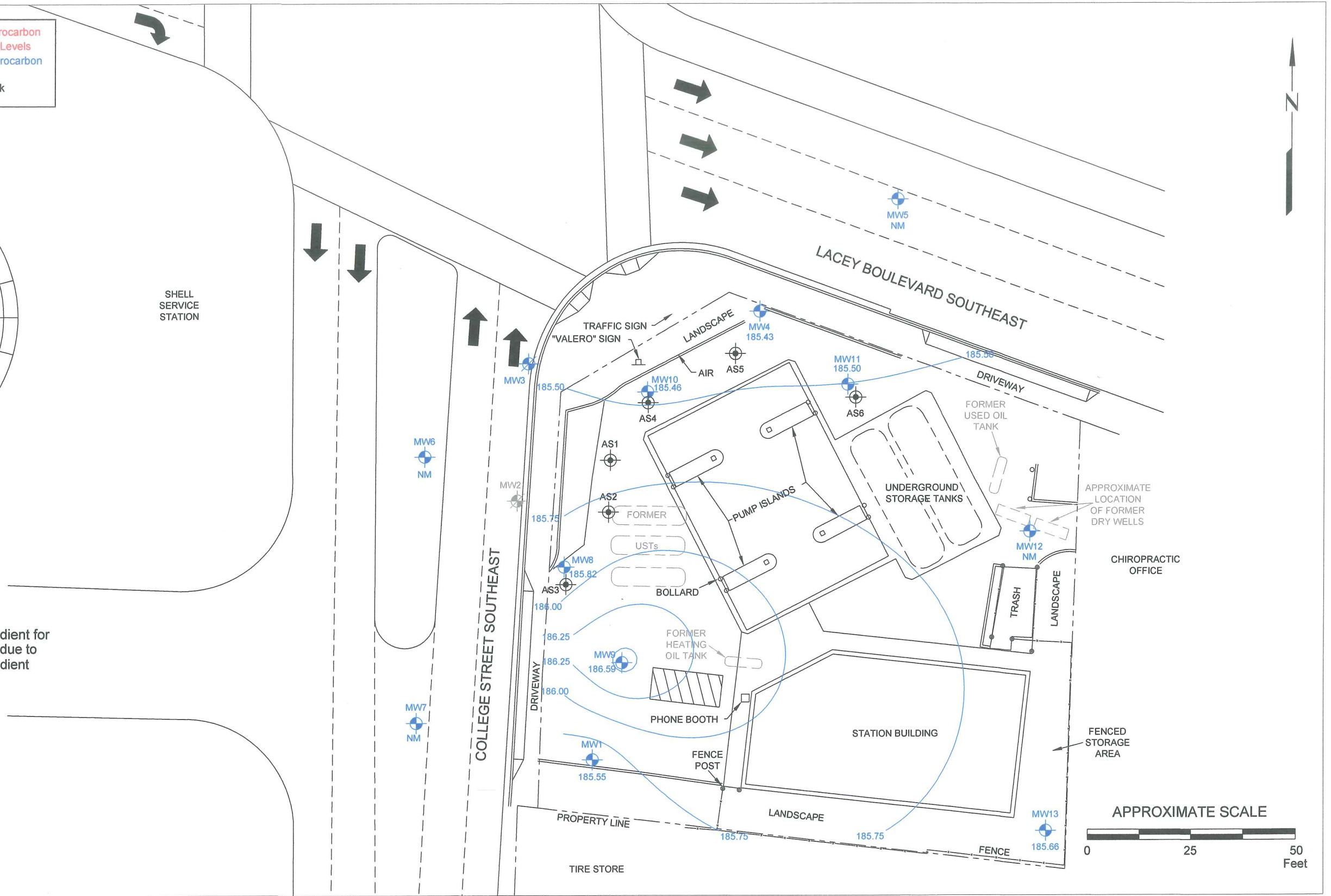
Direction of hydraulic gradient at MW4 for dates shown

- |             |              |
|-------------|--------------|
| 1. 03/20/02 | 10. 09/15/08 |
| 2. 12/18/02 | 11. 11/12/08 |
| 3. 12/13/05 | 12. 03/31/09 |
| 4. 12/19/06 | 13. 06/30/09 |
| 5. 03/27/07 | 14. 09/30/09 |
| 6. 06/18/07 | 15. 12/20/10 |
| 7. 09/26/07 | 16. 03/10/11 |
| 8. 11/27/07 |              |
| 9. 02/27/08 |              |

Direction of groundwater flow and hydraulic gradient for the site could not be calculated this quarter due to variable flow direction and a low hydraulic gradient

SOURCE: Modified from maps provided by ExxonMobil Oil Corporation

FN 311040002



## GROUNDWATER ELEVATION CONTOUR MAP - 12/30/11

FORMER EXXON STATION 72454  
4603 Lacey Boulevard Southeast  
Lacey, Washington

EXPLANATION	
MW13	Groundwater Monitoring Well
185.66	Groundwater Elevation
NM	Not Measured
—	Groundwater Elevation Contour Line
AS6	Air Sparge Well
MW3	Destroyed Groundwater Monitoring Well

**PROJECT NO.**  
31104  
**PLATE**  
4  
 SY: 02/06/12





**TABLE 1**  
**GROUNDWATER MONITORING AND SAMPLING SCHEDULE AND WELL CONSTRUCTION DETAILS**  
Former Exxon Station 72454  
4603 Lacey Boulevard Southeast  
Lacey, Washington  
Page 1 of 1

Well ID	Well Activity	Frequency of Gauging	Frequency of Sampling	Date of Installation	Wellhead Elevation (feet)	Screened Interval (feet bgs)	Total Well Depth (feet bgs)	Casing/Borehole Diameter (inches)	Slot Size (inches)
MW1	P	Quarterly	Quarterly	January 30, 1998	202.50	10-30	30	1/2	0.020
MW4	P	Quarterly	Quarterly	October 30, 1998	201.75	10-30	30	1/2	0.010
MW5	P	Quarterly	Quarterly	May 31, 2002	201.38	10-30	30	2/8	0.010
MW6	P	Quarterly	Quarterly	May 31, 2002	204.01	10-30	30	2/8	0.010
MW7	P	Quarterly	Quarterly	May 31, 2002	202.63	10-30	30	2/8	0.010
MW8	P	Quarterly	Quarterly	September 17, 2007	202.72	7-22	22	2/8	0.010
MW9	P	Quarterly	Quarterly	September 18, 2007	202.20	9-19	19	2/8	0.010
MW10	P	Quarterly	Quarterly	September 17, 2007	201.33	10-23	23	2/8	0.010
MW11	P	Quarterly	Quarterly	September 18, 2007	201.39	12-27	27	2/8	0.010
MW12	P	Quarterly	Quarterly	April 6, 2008	201.66	10-25	25	2/8	0.010
MW13	P	Quarterly	Quarterly	April 10, 2008	202.84	10-25	25	2/8	0.010
AS1	NS	NM	NS	July 30, 2008	201.91	25-27	27	1/8	--
AS2	NS	NM	NS	July 31, 2008	202.09	24-26	26	1/8	--
AS3	NS	NM	NS	November 11, 2010	203.09	25-27	27	2/9	0.010
AS4	NS	NM	NS	November 11, 2010	201.86	25-27	27	2/9	0.010
AS5	NS	NM	NS	November 10, 2010	201.71	25-27	27	2/9	0.010
AS6	NS	NM	NS	November 11, 2010	201.75	25-27	27	2/9	0.010

**EXPLANATION:**

feet bgs = feet below ground surface

P = Purge

NS = Not Sampled

NM = Not Measured

NE = Not Established

-- = Not Available

Wellhead elevations resurveyed by Cardno WRG on 03/17/11 using NAVD 88



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - 12/30/11**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington

Page 1 of 3

Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)	
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs															
MW1	12/30/11	202.50	16.95	185.55	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs															
MW4	12/30/11	201.75	16.32	185.43	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs															
MW5	12/30/11	201.38	NM	--	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs															
MW6	12/30/11	204.01	NM	--	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs															
MW7	12/30/11	202.63	NM	--	--	--	--	--	--	--	--	--	--	--	
Screened Interval 7-22 ft bgs \ Total Depth 22 ft bgs															
MW8	12/30/11	202.72	16.90	185.82	193	<94.8	<237	<1.00	12.0	79.9	127	<5.00	<5.00	--	
Screened Interval 9-19 ft bgs \ Total Depth 19 ft bgs															
MW9	12/30/11	202.20	15.61	186.59	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-23 ft bgs \ Total Depth 23 ft bgs															
MW10	12/30/11	201.33	15.87	185.46	356	188	<240	1.65	<1.00	16.7	34.3	<5.00	<5.00	--	
Screened Interval 12-27 ft bgs \ Total Depth 27 ft bgs															
MW11	12/30/11	201.39	15.89	185.50	312	<118	<294	<1.00	2.47	9.39	99.9	<5.00	<5.00	--	

MTCA Method A Cleanup Levels

800/1,000a 500 500 5 1,000 700 1,000 15 15 N/A

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - 12/30/11**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington

Page 2 of 3

Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)	
Screened Interval 10-25 ft bgs \ Total Depth 25 ft bgs															
MW12	12/30/11	201.66	NM	--	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-25 ft bgs \ Total Depth 25 ft bgs															
MW13	12/30/11	202.84	17.18	185.66	--	--	--	--	--	--	--	--	--	--	

MTCA Method A Cleanup Levels

800/1,000a

500

500

5

1,000

700

1,000

1,000

15

15

N/A

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - 12/30/11**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington

Page 3 of 3

**EXPLANATION:**

Wellhead Elev = Wellhead elevation

µg/L = Micrograms per Liter

ft bgs = Feet below ground surface

DTW = Depth to water in feet below top of casing

GW Elev = Groundwater elevation relative to top of casing elevations

TPHg = Total Petroleum Hydrocarbons as Gasoline in accordance with Ecology Method NWTPH-Gx

TPHd and TPHmo = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, in accordance with Ecology Method NWTPH-Dx

B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes

BTEX = Volatile organic compounds in accordance with EPA Method 8260B

Total and Diss Pb = Total and Dissolved Lead in accordance with EPA Method 6010B

Ethanol in accordance with EPA Method 8260B

-- = Not Analyzed or Sampled

< = Less than the stated laboratory reporting limit

Shaded values equal or exceed the MTCA Method A Cleanup Levels

a = TPHg cleanup level for groundwater is 800 µg/L if benzene is present, or 1,000 µg/L if benzene is not present





**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**

Former Exxon Station 72454

4603 Lacey Boulevard Southeast

Lacey, Washington

Page 1 of 10

Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs														
MW1	10/30/98	99.63	22.50	77.13	<100	--	--	<1.00	<1.00	<1.00	<1.00	--	--	--
MW1	12/17/99	99.63	16.50	83.13	<100	--	--	<1.00	<1.00	<1.00	<1.00	--	--	--
MW1	04/07/00	99.63	13.85	85.78	<100	--	--	<1.00	<1.00	<1.00	<1.00	--	--	--
MW1	12/28/00	99.63	20.10	79.53	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--
MW1	03/26/01	99.63	21.17	78.46	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--
MW1	06/12/01	99.63	21.60	78.03	105	--	--	5.74	8.48	5.01	11.3	--	--	--
MW1	09/24/01	99.63	23.32	76.31	77.6	--	--	1.38	4.41	2.01	12.7	--	--	--
MW1	03/20/02	99.63	14.37	85.26	<100	--	--	<1.00	4.1	1.5	9.3	<3.00	--	--
MW1	12/18/02	99.63	20.36	79.27	<100	--	--	<1.0	<1.0	<1.0	<1.0	48	--	--
MW1	10/28/04	99.63	21.19	78.44	<100	<100	<100	<1.00	<1.0	<1.0	<1.0	<5.00	<5.0	<100
MW1	12/13/05	99.63	21.71	77.92	231	<111	<111	20.1	<1.00	24.9	22.5	<5.00	<5.00	<100
MW1	12/19/06	99.63	16.10	83.53	<100	<133	<133	1.17	<1.00	15	25.1	--	--	--
MW1	03/27/07	99.63	12.94	86.69	<100	<133	<133	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	06/18/07	99.63	14.57	85.06	<100	<125	<125	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	09/26/07	99.63	17.66	81.97	<250	--	--	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	11/27/07	99.63	18.28	81.35	<250	<105	<105	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	02/27/08	99.63	14.42	85.21	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	06/04/08	99.63	15.46	84.17	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	09/15/08	99.63	18.62	81.01	<100	<99.0	<99.0	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	11/12/08	99.63	17.94	81.69	<100	<108	<108	<1.00	<1.00	<1.00	<3.00	22.2	<5.00	--
MW1	03/31/09	99.63	17.76	81.87	<100	<105	<105	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	06/30/09	99.63	16.39	83.24	539	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	116	<5.00	--
MW1	09/30/09	99.63	19.68	79.95	--	--	--	--	--	--	--	--	--	--
MW1	12/18/09	99.63	18.54	81.09	<100	<94.3	96.0	<1.00	<1.00	<1.00	<3.00	108	<5.00	--
MW1	03/31/10	99.63	17.56	82.07	<100	<98.0	<98.0	<1.00	<1.00	<1.00	<3.00	68.7	<5.00	--
MW1	06/02/10	99.63	17.02	82.61	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	76.5	<5.00	--
MW1	09/07/10	99.63	17.67	81.96	--	--	--	--	--	--	--	--	--	--
MW1	12/20/10	99.63	16.09	83.54	--	--	--	--	--	--	--	--	--	--
MW1	03/10/11	99.63	13.31	86.32	--	--	--	--	--	--	--	--	--	--
MW1	06/16/11 d	202.50	13.12	189.38	<100	<100	<250	<1.00	<1.00	<1.00	<3.00	32.4	<5.00	--
MW1	06/17/11	202.50	NM	--	--	--	--	--	--	--	--	--	--	--
MW1	09/25/11	202.50	16.30	186.20	<100	<97.1	<243	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW1	12/30/11	202.50	16.95	185.55	--	--	--	--	--	--	--	--	--	--

MTCA Method A Cleanup Levels

800/1,000a 500 500 5 1,000 700 1,000 15

N/A



**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**

Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington  
 Page 3 of 10

Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
MW4	06/18/07	98.77	13.64	85.13	1,380	496	<93.9	29.4	8.27	178	362	<5.00	<5.00	--
MW4	09/26/07	98.77	16.58	82.19	1,630	--	--	51.3	5.55	156	267	<5.00	<5.00	--
MW4	11/27/07	98.77	17.72	81.05	1,540	599	<105	75.5	6.34	194	303	<5.00	<5.00	--
MW4	02/27/08	98.77	13.55	85.22	1,240	655	<100	46.0	8.10	177	313	<5.00	<5.00	--
MW4	06/04/08	98.77	14.56	84.21	346	131	<94.3	7.71	1.47	47.5	90.8	<5.00	<5.00	--
MW4	09/15/08	98.77	17.52	81.25	1,800	570	<102	29.7	4.50	167	310	<5.00	<5.00	--
MW4	11/12/08	98.77	17.56	81.21	7,000	1,160	<95.2	15.6	46.0	431	1,680	84.6	<5.00	--
MW4	03/31/09	98.77	17.37	81.40	1,570	1,080	<111	45.8	4.64	166	39.4	<5.00	<5.00	--
MW4	06/30/09	98.77	16.18	82.59	2,880	913	<94.3	37.2	7.23	200	274	<5.00	<5.00	--
MW4	09/30/09	98.77	18.61	80.16	3,950	1,260	<105	25.4	10.5	338	707	<5.00	<5.00	--
MW4	12/18/09	98.77	18.01	80.76	19,400	2,340	131	89.6	67.6	668	2,970	56.4	<5.00	--
MW4	03/31/10	98.77	17.07	81.70	544	799	<97.1	46.5	1.04	6.74	19.6	10.6	<5.00	--
MW4	06/02/10	98.77	16.55	82.22	2,540	690	<105	14.8	3.83	164	337	5.40	<5.00	--
MW4	09/07/10	98.77	16.81	81.96	1,130	279	<105	10.3	2.09	112	105	--C	--C	--
MW4	12/20/10	98.77	15.63	83.14	1,680	1,220	<105	6.07	5.75	98.4	204	291	<5.00	<100
MW4	03/10/11	98.77	13.24	85.53	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	5.00	<5.00	<100
MW4	06/16/11 d	201.75	12.73	189.02	--	--	--	--	--	--	--	--	--	--
MW4	06/17/11	201.75	12.73	189.02	<100	<99.0	<248	<1.00	<1.00	<1.00	<3.00	10.1	<5.00	--
MW4	09/25/11	201.75	15.47	186.28	<100	<102	<255	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW4	12/30/11	201.75	16.32	185.43	--	--	--	--	--	--	--	--	--	--
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs														
MW5	12/18/02	98.56	19.17	79.39	<100	<100	<100	<1.0	1.5	<1.0	1.6	78.0	--	--
MW5	10/28/04	98.56	NM	--	--	--	--	--	--	--	--	--	--	--
MW5	12/13/05	98.56	20.48	78.08	<100	122	<103	1.62	<1.00	<1.00	<3.00	82.9	<5.00	<100
MW5	12/19/06	98.56	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW5	03/27/07	98.56	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW5	06/18/07	98.56	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW5	09/26/07	98.56	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW5	11/27/07	98.56	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW5	02/27/08	98.56	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW5	06/04/08	98.56	14.34	84.22	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	7.60	<5.00	--
MW5	09/15/08	98.56	17.31	81.25	<100	<103	<103	<1.00	<1.00	<1.00	<3.00	11.0	<5.00	--
MW5	11/12/08	98.56	18.42	80.14	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	49.9	<5.00	--
MW5	03/31/09	98.56	NM	--	--	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Levels														
800/1,000a														
500 500 500 500 500 500 500 500 500 500 500 500 500 500 500														
15 15 15 15 15 15 15 15 15 15 15 15 15 15 15														
N/A														

**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**

Former Exxon Station 72454

4603 Lacey Boulevard Southeast

Lacey, Washington

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Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
MW5	06/30/09	98.56	NM	--	--	--	--	--	--	--	--	--	--	--
MW5	09/30/09	98.56	18.30	80.26	<100	<99.0	<99.0	<1.00	<1.00	<1.00	<3.00	10.6	<5.00	--
MW5	12/18/09	98.56	17.72	80.84	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	11.2	<5.00	--
MW5	03/31/10	98.56	14.93	83.63	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	13.6	<5.00	--
MW5	06/02/10	98.56	14.34	84.22	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	46.5	<5.00	--
MW5	09/07/10	98.56	NM	--	--	--	--	--	--	--	--	--	--	--
MW5	12/20/10	98.56	15.22	83.34	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	44.6	<5.00	--
MW5	03/10/11	98.56	12.50	86.06	<100	<102	<102	<1.00	<1.00	<1.00	<3.00	40.1	<5.00	--
MW5	06/16/11 d	201.38	12.28	189.10	<100	<97.1	<243	<1.00	<1.00	<1.00	<3.00	46.8	<5.00	--
MW5	06/17/11	201.38	NM	--	--	--	--	--	--	--	--	--	--	--
MW5	09/25/11	201.38	NM	--	--	--	--	--	--	--	--	--	--	--
MW5	12/30/11	201.38	NM	--	--	--	--	--	--	--	--	--	--	--

Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs

MW6	12/18/02	99.94	20.55	79.39	<100	<100	<100	<1.0	1	<1.0	1.5	75.0	--	--
MW6	10/28/04	99.94	NM	--	--	--	--	--	--	--	--	--	--	--
MW6	12/13/05	99.94	NM	--	--	--	--	--	--	--	--	--	--	--
MW6	12/19/06	99.94	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW6	03/27/07	99.94	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW6	06/18/07	99.94	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW6	09/26/07	99.94	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW6	11/27/07	99.94	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW6	02/27/08	99.94	Inaccessible	--	--	--	--	--	--	--	--	--	--	--
MW6	06/04/08	99.94	16.82	83.12	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	14.6	<5.00	<100
MW6	09/15/08	99.94	19.95	79.99	<100	<104	<104	<1.00	<1.00	<1.00	<3.00	15.8	<5.00	--
MW6	11/12/08	99.94	21.01	78.93	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	80.5	<5.00	--
MW6	03/31/09	99.94	20.89	79.05	<100	<105	<105	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW6	06/30/09	99.94	18.89	81.05	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	94.7	<5.00	--
MW6	09/30/09	99.94	NM	--	--	--	--	--	--	--	--	--	--	--
MW6	12/18/09	99.94	18.38	81.56	<100	<105	<105	<1.00	<1.00	<1.00	<3.00	67.0	<5.00	--
MW6	03/31/10	99.94	17.54	82.40	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	54.9	<5.00	--
MW6	06/02/10	99.94	17.12	82.82	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	99.5	<5.00	--
MW6	09/07/10	99.94	17.13	82.81	--	--	--	--	--	--	--	--	--	--
MW6	12/20/10	99.94	18.03	81.91	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	8.80	<5.00	--
MW6	03/10/11	99.94	15.09	84.85	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	9.50	<5.00	--

MTCA Method A Cleanup Levels

800/1,000a 500 500 5 1,000 700 1,000 15 15 N/A

**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington  
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Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)	
MW6	06/16/11 d	204.01	14.71	189.30	<100	<99.0	<248	<1.00	<1.00	<1.00	<3.00	34.7	<5.00	--	
MW6	06/17/11	204.01	NM	--	--	--	--	--	--	--	--	--	--	--	
MW6	09/25/11	204.01	NM	--	--	--	--	--	--	--	--	--	--	--	
MW6	12/30/11	204.01	NM	--	--	--	--	--	--	--	--	--	--	--	
Screened Interval 10-30 ft bgs \ Total Depth 30 ft bgs															
MW7	12/18/02	99.84	20.56	79.28	<100	<100	<100	<1.0	1.6	<1.0	2.0	42.0	--	--	
MW7	10/28/04	99.84	NM	--	--	--	--	--	--	--	--	--	--	--	
MW7	12/13/05	99.84	21.85	77.99	<100	134	<105	<1.00	<1.00	<1.00	<3.00	21.8	<5.00	<100	
MW7	12/19/06	99.84	16.35	83.49	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	--	--	--	
MW7	03/27/07	99.84	13.11	86.73	<100	<125	<125	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--	
MW7	06/18/07	99.84	14.71	85.13	<100	<98.0	<98.0	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--	
MW7	09/26/07	99.84	17.81	82.03	<250	--	--	<1.00	<1.00	<1.00	<3.00	5.64	<5.00	--	
MW7	11/27/07	99.84	18.93	80.91	<250	<105	<105	<1.00	<1.00	<1.00	<3.00	13.0	<5.00	--	
MW7	02/27/08	99.84	14.53	85.31	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--	
MW7	06/04/08	99.84	16.63	83.21	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	19.3	<5.00	--	
MW7	09/15/08	99.84	18.74	81.10	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	35.3	<5.00	--	
MW7	11/12/08	99.84	19.67	80.17	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	30.9	<5.00	--	
MW7	03/31/09	99.84	19.74	80.10	<100	<118	<118	<1.00	<1.00	<1.00	<3.00	135	<5.00	--	
MW7	06/30/09	99.84	17.24	82.60	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	--	<5.00	--	
MW7	09/30/09	99.84	NM	--	--	--	--	--	--	--	--	--	--	--	
MW7	12/18/09	99.84	18.94	80.90	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	94.0	<5.00	--	
MW7	03/31/10	99.84	16.02	83.82	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	56.1	<5.00	--	
MW7	06/02/10	99.84	15.49	84.35	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	33.9	<5.00	--	
MW7	09/07/10	99.84	16.32	83.52	--	--	--	--	--	--	--	--	--	--	
MW7	12/20/10	99.84	16.38	83.46	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	26.9	<5.00	--	
MW7	03/10/11	99.84	13.66	86.18	<100	<99.0	<99.0	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--	
MW7	06/16/11 d	202.63	13.32	189.31	<100	<99.0	<248	<1.00	<1.00	<1.00	<3.00	39.1	<5.00	--	
MW7	06/17/11	202.63	NM	--	--	--	--	--	--	--	--	--	--	--	
MW7	09/25/11	202.63	NM	--	--	--	--	--	--	--	--	--	--	--	
MW7	12/30/11	202.63	NM	--	--	--	--	--	--	--	--	--	--	--	
Screened Interval 7-22 ft bgs \ Total Depth 22 ft bgs															
MW8	09/26/07	99.36	17.09	82.27	--	--	--	--	--	--	--	--	--	--	
MW8	11/27/07	99.36	18.18	81.18	<250	<111	<111	<1.00	<1.00	<1.00	<3.00	--	--	<100	
MTCA Method A Cleanup Levels															
					800/1,000a	500	500	5	1,000	700	1,000	15	15	N/A	

**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**

Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington  
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Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
MW8	02/27/08	99.36	14.55	84.81	840	<100	<1.00	4.72	29.0	172	<5.00	<5.00	--
MW8	06/04/08	99.36	15.52	83.84	1,170	<95.2	<1.00	1.03	54.2	222	8.50	<5.00	<100
MW8	09/15/08	99.36	18.52	80.84	1,810	<98.0	<1.00	16.9	97.6	401	<5.00	<5.00	--
MW8	11/12/08	99.36	19.14	80.22	29,900	<541	6.31	873	1,840	9,570	32.8	<5.00	--
MW8	03/31/09	99.36	19.03	80.33	288	<95.2	<1.00	1.76	7.97	38.5	10.4	<5.00	--
MW8	06/30/09	99.36	17.22	82.14	235	<95.2	<1.00	1.81	9.39	41.6	9.00	<5.00	--
MW8	09/30/09	99.36	19.55	79.81	8,080	<100	1.43	170	479	2,210	<5.00	<5.00	--
MW8	12/18/09	99.36	18.43	80.93	38,900	<100	5.76	951	2,410	9,320	80.7	<5.00	--
MW8	03/31/10	99.36	18.02	81.34	<100	<111	<1.00	<1.00	<1.00	<3.00	9.40	<5.00	--
MW8	06/02/10	99.36	15.60	83.76	<100	<97.1	<1.00	<1.00	<1.00	<3.00	5.60	<5.00	--
MW8	09/07/10	99.36	17.67	81.69	<100	<103	<1.00	1.56	11.5	26.9	14.5	<5.00	--
MW8	12/20/10	99.36	16.53	82.83	3,880	<96.2	1.86	129	753	1,650	<5.00	<5.00	--
MW8	03/10/11	99.36	13.47	85.89	<100	<98.0	<1.00	<1.00	2.73	8.13	7.00	<5.00	--
MW8	06/16/11 d	202.72	13.12	189.60	--	--	--	--	--	--	--	--	--
MW8	06/17/11	202.72	13.12	189.60	<100	<245	<1.00	<1.00	<1.00	<3.00	27.3	<5.00	--
MW8	09/25/11	202.72	16.33	186.39	<100	<236	<1.00	<1.00	2.46	<3.00	<5.00	<5.00	--
MW8	12/30/11	202.72	16.90	185.82	193	<237	<1.00	12.0	79.9	127	<5.00	<5.00	--

Screened Interval 9-19 ft bgs \ Total Depth 19 ft bgs

MW9	09/26/07	99.85	10.62	89.23	4,860	--	1.15	102	189	1,250	--	--	--
MW9	11/27/07	99.85	18.72	81.13	3,280	<95.2	<1.00	71.9	139	886	12.1	<5.00	<100
MW9	02/27/08	99.85	14.06	85.79	<100	<100	<1.00	<1.00	<1.00	<3.00	5.70	<5.00	--
MW9	06/04/08	99.85	14.94	84.91	<100	<95.2	<1.00	<1.00	<1.00	<3.00	17.7	<5.00	--
MW9	09/15/08	99.85	18.07	81.78	<100	<100	<1.00	<1.00	<1.00	<3.00	66.8	<5.00	--
MW9	11/12/08	99.86	16.01	83.85	<100	<94.3	<1.00	<1.00	<1.00	<3.00	16.2	<5.00	--
MW9	03/31/09	99.86	15.94	83.92	<100	<118	<1.00	<1.00	<1.00	<3.00	35.1	<5.00	--
MW9	06/30/09	99.86	15.23	84.63	<100	<94.3	<1.00	<1.00	<1.00	<3.00	112	<5.00	--
MW9	09/30/09	99.86	DRY	--	--	--	--	--	--	--	--	--	--
MW9	12/18/09	99.86	15.63	84.23	<100	<111	<1.00	<1.00	<1.00	<3.00	102	<5.00	--
MW9	03/31/10	99.86	17.79	82.07	<100	<99.0	<1.00	<1.00	<1.00	<3.00	65.0	<5.00	--
MW9	06/02/10	99.86	17.23	82.63	<100	<103	<1.00	<1.00	<1.00	<3.00	88.6	<5.00	--
MW9	09/07/10	99.86	17.14	82.72	<100	<109	<1.00	<1.00	<1.00	<3.00	51.2	<5.00	--
MW9	12/20/10	99.86	15.76	84.10	<100	<105	<1.00	<1.00	<1.00	<3.00	6.40	<5.00	--
MW9	03/10/11	99.86	12.29	87.57	<100	<99.0	<1.00	<1.00	<1.00	<3.00	5.20	<5.00	--
MW9	06/16/11 d	202.20	12.08	190.12	<100	<243	<1.00	<1.00	<1.00	<3.00	24.7	<5.00	--

MTCA Method A Cleanup Levels

800/1,000a

500

500

5

1,000

1,000

700

1,000

15

15

N/A

**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington  
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Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
MW9	06/17/11	202.20	NM	--	--	--	--	--	--	--	--	--	--	--
MW9	09/25/11	202.20	15.86	186.34	<100	<94.3	<236	<1.00	<1.00	<1.00	<3.00	51.5	<5.00	--
MW9	12/30/11	202.20	15.61	186.59	--	--	--	--	--	--	--	--	--	--
Screened Interval 10-23 ft bgs \ Total Depth 23 ft bgs														
MW10	09/26/07	98.47	16.26	82.21	--	--	--	--	--	--	--	--	--	--
MW10	11/27/07	98.47	17.40	81.07	3,650	1,780	125	12.3	10.2	131	653	<5.00	<5.00	<100
MW10	02/27/08	98.47	13.21	85.26	2,310	1,140	154	50.4	19.8	155	397	5.50	<5.00	--
MW10	06/04/08	98.47	14.20	84.27	596	460	<100	4.65	1.19	45.6	59.2	5.40	<5.00	--
MW10	09/15/08	98.47	17.17	81.30	5,220	2,090	193	18.7	12.7	191	752	7.21	<5.00	--
MW10	11/12/08	98.47	17.58	80.89	9,000	1,230	121	18.4	50.0	510	2,360	100	<5.00	<100
MW10	03/31/09	98.47	17.87	80.60	1,070	4,180	<189	26.1	<1.00	91.5	<3.00	5.12	<5.00	<100
MW10	06/30/09	98.47	15.87	82.60	223	1,160	<95.2	15.6	<1.00	8.15	<3.00	<5.00	<5.00	<100
MW10	09/30/09	98.47	18.12	80.35	8,270	2,120	<211	48.4	46.2	521	2,130	<5.00	<5.00	--
MW10	12/18/09	98.47	17.64	80.83	19,200	4,250	<105	95.9	73.3	652	2,880	49.1	<5.00	<100
MW10	03/31/10	98.47	15.08	83.39	1,930	1,520	<96.2	165	3.51	20.7	90.2	6.80	<5.00	<100
MW10	06/02/10	98.47	14.27	84.20	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	11.8	<5.00	<100
MW10	09/07/10	98.47	16.31	82.16	1,010	738	<101	7.01	2.93	36.0	117	17.2	<5.00	<100
MW10	12/20/10	98.47	15.31	83.16	924	633	<100	17.2	6.05	51.7	156	<5.00	<5.00	<100
MW10	03/10/11	98.47	12.43	86.04	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	6.70	<5.00	<100
MW10	06/16/11 d	201.33	12.22	189.11	--	--	--	--	--	--	--	--	--	--
MW10	06/17/11	201.33	12.22	189.11	<100	<100	<250	<1.00	<1.00	<1.00	<3.00	25.4	<5.00	<100
MW10	09/25/11	201.33	15.02	186.31	728	515	<272	5.59	2.72	40.2	72.4	<5.00	<5.00	<100
MW10	12/30/11	201.33	15.87	185.46	356	188	<240	1.65	<1.00	16.7	34.3	<5.00	<5.00	--
Screened Interval 12-27 ft bgs \ Total Depth 27 ft bgs														
MW11	09/26/07	98.54	16.37	82.17	--	--	--	--	--	--	--	--	--	--
MW11	11/27/07	98.54	17.50	81.04	1,090	402	<105	2.65	32.3	4.26	139	50.2	<5.00	<100
MW11	02/27/08	98.54	13.32	85.22	152	279	136	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	<100
MW11	06/04/08	98.54	14.34	84.20	153	<97.1	<97.1	<1.00	<1.00	3.66	23.2	21.9	<5.00	--
MW11	09/15/08	98.54	17.31	81.23	2,470	614	130	8.92	25.2	202	949	21.7	<5.00	--
MW11	11/12/08	98.54	18.40	80.14	6,770	1,380	<103	22.8	64.5	406	1,840	73.4	<5.00	<100
MW11	03/31/09	98.54	18.25	80.29	<100	<105	<105	<1.00	<1.00	<1.00	<3.00	17.8	<5.00	<100
MW11	06/30/09	98.54	15.96	82.58	<100	<94.3	<94.3	<1.00	<1.00	5.04	22.0	20.3	<5.00	<100
MW11	09/30/09	98.54	18.31	80.23	1,880	<100	<100	1.83	9.16	73.8	253	<5.00	<5.00	--
MTCA Method A Cleanup Levels														
					800/1,000a	500	500	5	1,000	700	1,000	15	15	N/A

**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
Former Exxon Station 72454  
4603 Lacey Boulevard Southeast  
Lacey, Washington  
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Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
MW11	12/18/09	98.54	17.69	80.85	5,490	823	<118	4.60	24.7	284	1,070	76.2	<5.00	<100
MW11	03/31/10	98.54	14.87	83.67	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	11.8	<5.00	<100
MW11	06/02/10	98.54	14.34	84.20	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	8.90	<5.00	<100
MW11	09/07/10	98.54	16.42	82.12	2,120	127	<94.3	<1.00	10.3	120	471	27.8	<5.00	<100
MW11	12/20/10	98.54	15.21	83.33	2,680	124	<94.3	2.09	9.77	291	823	7.00	<5.00	<100
MW11	03/10/11	98.54	12.58	85.96	4,210	419	<99.0	<1.00	12.3	181	868	<5.00	<5.00	<100
MW11	06/16/11 d	201.39	12.25	189.14	--	--	--	--	--	--	--	--	--	--
MW11	06/17/11	201.39	12.25	189.14	<100	<102	<255	<1.00	<1.00	<1.00	<3.00	9.70	<5.00	<100
MW11	09/25/11	201.39	15.11	186.28	1,780	<102	<255	<1.00	6.84	83.8	234	<5.00	<5.00	<100
MW11	12/30/11	201.39	15.89	185.50	312	<118	<294	<1.00	2.47	9.39	99.9	<5.00	<5.00	--

Screened Interval 10-25 ft bgs \ Total Depth 25 ft bgs

MW12	06/04/08	98.82	NM	--	--	--	--	--	--	--	--	--	--	--
MW12	09/05/08	98.82	NM	--	--	--	--	--	--	--	--	--	--	--
MW12	11/12/08	98.82	NM	--	--	--	--	--	--	--	--	--	--	--
MW12	03/31/09	98.82	16.33	82.49	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	35.0	<5.00	--
MW12	06/30/09	98.82	15.97	82.85	<100	<98.0	<98.0	<1.00	<1.00	<1.00	<3.00	126	<5.00	--
MW12	09/30/09	98.82	18.65	80.17	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	56.1	<5.00	--
MW12	12/18/09	98.82	18.03	80.79	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	83.1	<5.00	--
MW12	03/31/10	98.82	17.04	81.78	<100	<102	<102	<1.00	<1.00	<1.00	<3.00	65.7	<5.00	--
MW12	06/02/10	98.82	16.64	82.18	<100	<102	<102	<1.00	<1.00	<1.00	<3.00	85.5	<5.00	--
MW12	09/07/10	98.82	16.76	82.06	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	49.1	<5.00	--
MW12	12/20/10	98.82	15.35	83.47	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	6.30	<5.00	--
MW12	03/10/11	98.82	12.72	86.10	<100	<99.0	<99.0	<1.00	<1.00	<1.00	<3.00	7.60	<5.00	--
MW12	06/16/11 d	201.66	12.31	189.35	<100	<94.3	<236	<1.00	<1.00	<1.00	<3.00	36.8	<5.00	--
MW12	06/17/11	201.66	NM	--	--	--	--	--	--	--	--	--	--	--
MW12	09/25/11	201.66	15.48	186.18	<100	<110	<275	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW12	12/30/11	201.66	NM	--	--	--	--	--	--	--	--	--	--	--

Screened Interval 10-25 ft bgs \ Total Depth 25 ft bgs

MW13	06/04/08	100.00	NM	--	--	--	--	--	--	--	--	--	--	--								
MW13	09/05/08	100.00	NM	--	--	--	--	--	--	--	--	--	--	--								
MW13	11/12/08	100.00	19.61	80.39	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	134	<5.00	--								
MW13	03/31/09	100.00	19.47	80.53	<100	<94.3	125	<1.00	<1.00	<1.00	<3.00	94.5	<5.00	--								
MW13	06/30/09	100.00	17.62	82.38	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	110	<5.00	--								
MTCA Method A Cleanup Levels													800/1,000a	500	500	5	1,000	700	1,000	15	15	N/A



**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
Former Exxon Station 72454  
4603 Lacey Boulevard Southeast  
Lacey, Washington  
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Well ID	Sampling Date	Wellhead Elev (feet)	DTW (feet)	GW Elev (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Diss Pb (µg/L)	Ethanol (µg/L)
MW13	09/30/09	100.00	19.79	80.21	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	43.2	<5.00	--
MW13	12/18/09	100.00	18.94	81.06	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	85.2	<5.00	--
MW13	03/31/10	100.00	16.11	83.89	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	62.1	<5.00	--
MW13	06/02/10	100.00	15.68	84.32	<100	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	65.3	<5.00	--
MW13	09/07/10	100.00	17.85	82.15	<100	<114	<114	<1.00	<1.00	<1.00	<3.00	64.8	<5.00	--
MW13	12/20/10	100.00	16.27	83.73	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	8.00	<5.00	--
MW13	03/10/11	100.00	13.89	86.11	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	5.50	<5.00	--
MW13	06/16/11 d	202.84	13.56	189.28	--	--	--	--	--	--	--	--	--	--
MW13	06/17/11	202.84	13.56	189.28	<100	<99.0	<248	<1.00	<1.00	<1.00	<3.00	42.5	<5.00	--
MW13	09/25/11	202.84	16.57	186.27	<100	<95.2	<238	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00	--
MW13	12/30/11	202.84	17.18	185.66	--	--	--	--	--	--	--	--	--	--

MTCA Method A Cleanup Levels

800/1,000a 500 500 5 1,000 700 1,000 15 15 N/A

**TABLE 3**  
**CUMULATIVE GROUNDWATER ANALYTICAL RESULTS**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington  
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**EXPLANATION:**

- Wellhead Elev = Wellhead elevation
- µg/L = Micrograms per Liter
- ft bgs = Feet below ground surface
- DTW = Depth to water in feet below top of casing
- GW Elev = Groundwater elevation relative to top of casing elevations
- TPHg = Total Petroleum Hydrocarbons as Gasoline in accordance with Ecology Method NWTPH-Gx
- TPHd and TPHmo = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, in accordance with Ecology Method NWTPH-Dx
- B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes
- BTEX = Aromatic compounds in accordance with EPA Method 8021B or volatile organic compounds in accordance with EPA Method 8260B. Refer to laboratory reports.
- Total and Diss Pb = Total and Dissolved Lead in accordance with EPA Method 6010B
- Ethanol in accordance with EPA Method 8260B
- = Not Analyzed or Sampled
- < = Less than the stated laboratory reporting limit
- Shaded values equal or exceed the MTCA Method A Cleanup Levels
- a = TPHg cleanup level for groundwater is 800 µg/L if benzene is present, or 1,000 µg/L if benzene is not present
- b = MW2 and MW3 covered or paved over by the City of Lacey during road improvements and are presumed destroyed
- c = Total and dissolved lead analyses could not be performed due to low sample volume recovery
- d = Wellhead elevations resurveyed by Cardno WRG on 03/17/11 using NAVD 88

**TABLE 4**  
**OPERATION AND MAINTENANCE SUMMARY**  
 Former Exxon Station 72454  
 4603 Lacey Boulevard Southeast  
 Lacey, Washington  
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Visit Date	Time Between Visits (days)	Dissolved Oxygen (DO) Concentration										Comments
		MW4 (mg/L)	MW8 (mg/L)	MW10 (mg/L)	MW11 (mg/L)	AS1 (mg/L)	AS2 (mg/L)	AS3 (mg/L)	AS4 (mg/L)	AS5 (mg/L)	AS6 (mg/L)	
01/21/11	0	NM	0.49	1.49	0.72	NM	NM	1.25	0.85	1.45	0.25	One "D" size tank of oxygen injected in each AS well
01/31/11	10	NM	0.07	3.43	1.70	NM	NM	0.85	1.18	1.18	2.37	One "D" size tank of oxygen injected in each AS well
02/21/11	21	NM	9.43	10.67	1.79	NM	NM	3.14	0.78	0.10	4.54	One "D" size tank of oxygen injected in each AS well
02/28/11	7	NM	6.56	7.92	4.12	NM	NM	0.46	0.54	0.28	0.42	One "D" size tank of oxygen injected in each AS well
03/15/11	15	NM	3.95	33.94	1.02	NM	NM	1.42	5.10	4.65	32.28	One "D" size tank of oxygen injected in each AS well
03/30/11	15	NM	8.22	33.09	6.11	NM	NM	31.13	45.07	19.87	29.67	One "D" size tank of oxygen injected in each AS well
04/13/11	14	NM	9.06	51.90	7.03	NM	NM	51.50	53.30	14.30	53.00	One "D" size tank of oxygen injected in each AS well
04/27/11	14	NM	27.09	30.40	11.12	NM	NM	51.33	36.52	22.08	22.03	No oxygen added
05/04/11	7	NM	21.30	26.69	9.45	NM	NM	27.25	19.35	15.72	41.63	No oxygen added
05/12/11	8	NM	18.41	29.22	19.36	NM	NM	27.35	29.04	17.31	20.96	No oxygen added
06/06/11	25	NM	10.66	22.52	13.71	NM	NM	6.83	9.97	1.58	15.55	One "D" size tank of oxygen injected in each AS well
07/11/11	35	NM	21.20	19.29	9.27	NM	NM	29.30	1.25	0.18	20.36	One "D" size tank of oxygen injected in each AS well
07/28/11	17	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	One "D" size tank of oxygen injected in AS1, AS2, AS4 and AS5 No DO measurements taken
08/10/11	13	NM	11.62	16.63	13.30	NM	NM	16.34	8.47	1.31	36.85	One "D" size tank of oxygen injected in AS1, AS2, AS3, AS4, AS5
08/31/11	21	NM	10.74	15.73	12.27	NM	NM	22.41	34.24	8.56	38.36	One "D" size tank of oxygen injected in AS1, AS2, AS3 and AS5
09/13/11	13	NM	8.73	8.35	24.88	NM	NM	24.49	8.16	28.28	30.21	One "D" size tank of oxygen injected in AS1, AS2, and AS4
09/26/11	13	NM	5.10	7.66	4.23	NM	NM	13.85	12.39	7.77	28.58	One "D" size tank of oxygen injected in AS1, AS2, AS3, AS4, and AS5
11/08/11	43	NM	11.54	17.42	21.16	NM	NM	16.31	38.56	26.21	34.07	One "D" size tank of oxygen injected in AS1, AS2, AS3, and AS5
11/29/11	21	NM	18.56	4.34	19.47	NM	NM	45.54	34.63	33.38	31.66	One "D" size tank of oxygen injected in AS1 and AS2
12/15/11	16	NM	16.58	10.41	16.67	NM	NM	39.90	38.86	11.95	14.04	One "D" size tank of oxygen injected in AS1, AS2, AS5, and AS6

**EXPLANATION**  
 mg/L = Milligrams per liter  
 DO readings measured with YSI 550A probe unless otherwise noted  
 NM = Not Monitored  
 DO readings are not taken at MW4, AS1, and AS2 as they are 1" wells and are too small for the DO probe

