

March 1, 2011

Mr. Bruce Philbrick
Metro
600 N.E. Grand Avenue
Portland, OR 97232

RE: MSS Annual Operating Report

Mr. Philbrick,

Enclosed is the Annual Operating Report summarizing 2010 operations at the Metro South Transfer Station. Also included is a Summary and applicable data for the 1st Quarter operations of the Metro Central Station as requested.

Please contact me should you have questions on the enclosed data or require any additional information.

Sincerely,



Matthew L. Cofer
Operations Supervisor
Allied Waste Transfer Services of Oregon, LLC

March 1, 2011

Metro
600 N.E. Grand Avenue
Portland, OR 97232

RE: MSS Annual Operating Report Summary

Metro,

This summary report contains data on inbound and outbound volumes for waste transfer and waste recovery operations, cost of utility services, storm and waste water sampling records, sustainable practices, pest management and performance measure tracking. Significant events and or changes in operations that occurred in 2010 are described in pertinent sections within this report. Copies are attached of all supporting data for the station operations. Note: Data for MCS is included in Appendix H of this report through 31 March 2010, the end date of the contract between Metro and Allied/Republic for operation of that station.

Waste Flow:

MSS realized a slight increase in inbound MSW tons at .6% in 2010, but also saw Yard Debris fall by 18%. The station did manage a slight gain of .3%, or 800 tons in total volume for 2010. Table 1, Appendix A (09-10 Station Tonnage Comparison) provides data on total volumes for both stations (MSS/MCS), both years.

Metro South Station continues to sustain operations in maximizing outbound transport trailer weights. MSS loaded 6309 transport trailers with 215,476 tons of waste, averaging 34.15 tons each. Combined, the average load per trailer travelling up the Columbia River Gorge was 34.09 tons (Table 2, App A). This is a significant gain from 2009 as the average trailer weight was recorded at 30.63 tons for 7003 loads. It must be noted however, that base trailer weight did increase from 29 to 33 tons in 2010.

Dry waste volumes at MSS decreased significantly for the third consecutive year. 2010 received a total of 89,667 tons of dry waste, 5521 less than the prior year. Once averaged out, that figure translates to roughly 480 tons less per month of inbound dry received at MSS from 2009 (Table 3, App A). This number most likely can be attributed to economic factors such as the continued decline in new home construction and a decrease in industrial tons as a whole.

Recovery Operations:

MSS exceeded the recovery goal of 15% per month, every month for the year 2010 (Table 1 App B). The range of recovery rates was 15.9% to 20.42% with an annual average of 17.91%. A year over year comparison highlights a 668 ton net gain in 2010 from 2009 (Table 2, App B) and a recovery percentage increase of 1.89%. These figures more than compensate for the lagging inbound dry waste volumes at Metro South and demonstrate Allied Waste's continued commitment to maximize recovery efforts year over year.

Physical recovery operations and techniques at MSS did not change in 2010, though a Recycle Coordinator was appointed and given operational control of the sort crew and equipment operators assigned to recovery operations. MSS uses a combination of a mechanical sort line in Bay 3 for industrial loads and floor sorting in Bay 2 for the self-haul material. Operations experienced very few disruptions to recovery efforts due to mechanical breakdowns, this is attributed to renewed emphasis on preventive maintenance, checks and services by both operators and shop personnel in 2010.

Approximately 55% of all material recovered at MSS remains waste wood. This figure is down almost three percentage points from 2009, which corresponds to a drop in volume of 470 tons by year's end 2010. Ferrous and non-ferrous metal accounted for 19.8% combined and rubble came in at 4.5% of total recovered material to round out the top three commodities in 2010. The largest decrease percentage wise was cardboard, down 3.35% and the largest gain was seen in rubble, up 2.24%.

MSS began random sampling and reporting of residuals from the recovery operations in 2009 as a part of the Enhanced Dry Waste Recovery Program (EDWRP) and continued to do so in 2010. The reported results at MSS in 2009 were 2.8% in Q1, 3.0% in Q2, 3.9% in Q3 and 4.5% in Q4. Results in 2010 as follows: Q1 - 3.4%, Q2 - 8.4%, Q3 - 5.6%, Q4 - 4% (Section 1, App G). For the second consecutive year, MSS is well below the established 15% benchmark required by Metro standards.

After struggling in 2009, commodity prices in 2010 held steady the first half of the year and began to experience some gains, especially cardboard and metal, beginning in the Fall. Wood prices remained stagnant, but the market was not plagued as it was in 2009 with multiple, frequent mill closures. See Table 3, Appendix B for data on commodity revenue vs. cost.

Other Operations:

Storm water management practices continue to evolve, adapting to any and all environmental conditions and striving to meet the various pollutant thresholds established under the 1200Z permit requirements.

MSS encountered storm water challenges in 2010, much the same as 2009. As the facility developed over the years, the storm water infrastructure developed into 6 noncontiguous systems, all having their own outfalls leaving the site. Sampling in the Fall and Winter of 2010 identified Total Suspended Solids beyond the permissible thresholds at all Outfalls on this site (Exhibit 3-5, App D). The most problematic outfalls have been identified as; #1, which originates from the transfer trailer parking area and #4, which originates from the scale house area. Site operations have been modified to include numerous, extensive best management practices. This, coupled with the purchase and implementation of numerous slope guards and the training/education of site sanitation personnel has greatly contributed to the success of the Allied's Storm Water Control Plan. Perhaps no other factor contributed more to the end of the year effort to clean up the storm water than the addition of the sweeper truck. Once trained on its use and maintenance, operators were placed on a strict monitoring schedule to ensure the appropriate number of hours were spent sweeping the site. Operators were also given designated target areas in which SOPs were put in place to add increased awareness and ensure proper sweeping procedures were adhered to at all times. The end result of this cumulative effort resulted in all outfalls falling below the TSS benchmarks for Q1 2011.

It must be reiterated from last year's report that substantial engineering improvements and continued adaptations to the BMPs are needed to the storm water systems in order to meet current and future storm water discharge standards while conducting the transfer operations at Metro South Station.

Industrial Waste Water Management on site remains unchanged from the previous year. Reports are turned into the WES monthly and points of compliance are sampled Quarterly.

Pest management and mitigation are ongoing operations at both MSS. There are still three primary components to the system:

- Rodent control
- Pigeon control
- House keeping

AW contracts with EZ Pest at MSS for both rodent and pigeon control. No substantial increase in either of those pests has been reported by vector control. House keeping plays the largest role in rodent control around the facility. Operations routinely remove, discard, recycle or relocate items that have been stationary for long periods of time. Anything that sits undisturbed for long durations presents itself as a safe haven for rodents. By eliminating or frequently displacing stored items rodents have fewer nesting areas. Keeping the waste flow moving also plays a key role in rodent control for the same reasons as above. AW strives to remove as much material from the sites as we receive on daily basis. The goal is to push or process at or near the same rate as receiving.

AW is committed to promoting sustainability (Appendix E) and continues operations and purchasing practices to lessen the footprint of MSS on the community and environment.

Please reference the 2010 Sustainability Report, Appendix C for details on our continued efforts to reduce, reuse and recycle.

As always, in 2010 Allied / Republic placed safety at the "Top of the Star", our highest priority for employees and customers alike. At MSS, we have instilled another motto: "Everybody is a Safety". Employees who witness an unsafe act by coworkers, customers, staff or supervisors are encouraged to disengage from whatever task at hand and put a stop to the dangerous activity. Furthermore, employees have their own elected Safety Committee in which they may voice concerns on the subject (safety) with their peers rather than directly with Supervisory personnel. This concern is then passed from the Safety Committee to management with a certain degree of anonymity in an effort to increase employee comfort in reporting safety violations.

To conclude, AW will continue to find ways to improve on both transfer and recovery operations, while sustaining the improvements made in the past. AW continues to endeavor to meet the daily challenges in the transfer operations and maintenance of Metro South Station while continuing to look forward, exploring all avenues of improvement in safety, sustainability, customer service, recovery and disposal.

For further information regarding this report, please contact the undersigned.

Sincerely,

Matthew L. Cofer
Operations Supervisor
Allied Waste Transfer Services of Oregon, LLC.

Appendices:

- A. Waste Flow
 - a. Table 1 09-10 Station Tonnage Comparison
 - b. Table 2 MSS Densified Tons to Arlington Landfill
 - c. Table 3 09-10 Year over Year Comparison
- B. Recovery Operations
 - a. Table 1 2010 Commodities Shipped
 - b. Table 2 2009 Commodities Shipped
 - c. Table 3 2010 Commodity Revenue vs. Cost
- C. Storm Water Analytical Reports
 - a. Exhibit 1 2/26/2010
 - b. Exhibit 2 3/29/2010
 - c. Exhibit 3 11/6/2010
 - d. Exhibit 4 11/22/2010
 - e. Exhibit 5 12/9/2010
- D. Waste Water Discharge Reports Q1-Q4
- E. 2010 Sustainability Report
- F. 2010 Utility Tracking
- G. 2010 Performance Measure Tracking Graphs and Charts
 - a. Section 1 Recovery Operations
 - b. Section 2 Loading Operations
 - c. Section 3 Customer Service
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- H. Q1 MCS Summary Information

Appendix A

Table 1 – 09-10 Station Tonnage Comparison

Table 2 – MSS Densified Tons to Arlington

Table 3 – 09-10 Year Over Year Comparison

09-10 Station Tonnage Comparison

		MCS			MSS			Combined Stations		
		2009	2010	% Growth	2009	2010	% Growth	2009	2010	% Growth
Jan	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22916.98	19943.72	-12.97%	21005.86	17456.56	-16.90%	43922.84	37400.28	-14.85%
	ORG	1414.34	1685.51	19.17%	0.00	0.00		1414.34	1685.51	19.17%
	YD	547.62	144.43	-73.63%	274.90	149.65	-45.56%	822.52	294.08	-64.25%
	Total Inbound	24878.94	21773.66	-12.48%	21280.76	17606.21	-17.27%	46159.70	39379.87	-14.69%
Feb	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	18596.31	18739.93	0.77%	16794.32	16851.27	0.34%	35390.63	35591.20	0.57%
	ORG	1354.36	1589.78	17.38%	0.00	0.00		1354.36	1589.78	17.38%
	YD	455.39	194.27	-57.34%	229.02	218.98	-4.38%	684.41	413.25	-39.62%
	Total Inbound	20406.06	20523.98	0.58%	17023.34	17070.25	0.28%	37429.40	37594.23	0.44%
Mar	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21114.61	20760.21	-1.68%	18861.38	19600.16	3.92%	39975.99	40360.37	0.96%
	ORG	1486.49	1835.92	23.51%	0.00	0.00		1486.49	1835.92	23.51%
	YD	450.33	250.93	-44.28%	250.68	226.66	-9.58%	701.01	477.59	-31.87%
	Total Inbound	23051.43	22847.06	-0.89%	19112.06	19826.82	3.74%	42163.49	42673.88	1.21%
Apr	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22123.23	0.00	-100.00%	19971.73	19857.67	-0.57%	42094.96	19857.67	-52.83%
	ORG	1614.71	0.00	-100.00%	0.00	0.00		1614.71	0.00	-100.00%
	YD	625.07	0.00	-100.00%	314.87	273.47	-13.15%	939.94	273.47	-70.91%
	Total Inbound	24363.01	0.00	-100.00%	20286.60	20131.14	-0.77%	44649.61	20131.14	-54.91%
May	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22243.63	0.00	-100.00%	19671.55	19615.31	-0.29%	41915.18	19615.31	-53.20%
	ORG	1617.75	0.00	-100.00%	0.00	0.00		1617.75	0.00	-100.00%
	YD	630.83	0.00	-100.00%	377.84	273.88	-27.51%	1008.67	273.88	-72.85%
	Total Inbound	24492.21	0.00	-100.00%	20049.39	19889.19	-0.80%	44541.60	19889.19	-55.35%
Jun	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22952.97	0.00	-100.00%	20912.92	21369.65	2.18%	43865.89	21369.65	-51.28%
	ORG	1696.65	0.00	-100.00%	0.00	0.00		1696.65	0.00	-100.00%
	YD	418.16	0.00	-100.00%	370.43	296.47	-19.97%	788.59	296.47	-62.41%
	Total Inbound	25067.78	0.00	-100.00%	21283.35	21666.12	1.80%	46351.13	21666.12	-53.26%
Jul	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22218.49	0.00	-100.00%	21685.88	21249.21	-2.01%	43904.37	21249.21	-51.60%
	ORG	1847.81	0.00	-100.00%	0.00	0.00		1847.81	0.00	-100.00%
	YD	333.67	0.00	-100.00%	342.61	299.35	-12.63%	676.28	299.35	-55.74%
	Total Inbound	24399.97	0.00	-100.00%	22028.49	21548.56	-2.18%	46428.46	21548.56	-53.59%
Aug	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21706.37	0.00	-100.00%	20556.35	21027.60	2.29%	42262.72	21027.60	-50.25%
	ORG	1736.84	0.00	-100.00%	0.00	0.00		1736.84	0.00	-100.00%
	YD	317.40	0.00	-100.00%	316.90	266.74	-15.83%	634.30	266.74	-57.95%
	Total Inbound	23760.61	0.00	-100.00%	20873.25	21294.34	2.02%	44633.86	21294.34	-52.29%
Sep	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22007.47	0.00	-100.00%	20524.74	20676.84	0.74%	42532.21	20676.84	-51.39%
	ORG	1790.75	0.00	-100.00%	0.00	0.00		1790.75	0.00	-100.00%
	YD	282.21	0.00	-100.00%	266.80	215.44	-19.25%	549.01	215.44	-60.76%
	Total Inbound	24080.43	0.00	-100.00%	20791.54	20892.28	0.48%	44871.97	20892.28	-53.44%
Oct	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21799.28	0.00	-100.00%	19057.10	19594.14	2.82%	40856.38	19594.14	-52.04%
	ORG	1834.33	0.00	-100.00%	0.00	0.00		1834.33	0.00	-100.00%
	YD	259.47	0.00	-100.00%	217.31	192.04	-11.63%	476.78	192.04	-59.72%
	Total Inbound	23893.08	0.00	-100.00%	19274.41	19786.18	2.66%	43167.49	19786.18	-54.16%
Nov	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21879.61	0.00	-100.00%	18279.12	18982.21	3.85%	40158.73	18982.21	-52.73%
	ORG	1712.71	0.00	-100.00%	0.00	0.00		1712.71	0.00	-100.00%
	YD	312.81	0.00	-100.00%	241.60	157.71	-34.72%	554.41	157.71	-71.55%
	Total Inbound	23905.13	0.00	-100.00%	18520.72	19139.92	3.34%	42425.85	19139.92	-54.89%
Dec	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21749.78	0.00	-100.00%	18533.98	20962.07	13.10%	40283.76	20962.07	-47.96%
	ORG	1781.99	0.00	-100.00%	0.00	0.00		1781.99	0.00	-100.00%
	YD	162.73	0.00	-100.00%	114.14	159.02	39.32%	276.87	159.02	-42.57%
	Total Inbound	23694.50	0.00	-100.00%	18648.12	21121.09	13.26%	42342.62	21121.09	-50.12%
Annual	MSW	261308.73	59443.86	-77.25%	235854.93	237242.69	0.59%	497163.66	296686.55	-40.32%
Annual	ORG	19888.73	5111.21	-74.30%	0.00	0.00		19888.73	5111.21	-74.30%
Annual	YD	4795.69	589.63	-87.71%	3317.10	2729.41	-17.72%	8112.79	3319.04	-59.09%
Annual Tonnage		285993.15	65144.70	-77.22%	239172.03	239972.10	0.33%	525165.18	305116.80	-41.90%

South Station MSW Densified and Transported to Arlington

2010

Month	# Loads	Tons Densified	Average Tons per Load	Base Tonnage	Bonus Tonnage
January*	456	15,350.38	33.66	13,224.00	2,126.38
February*	443	15,097.75	34.08	12,847.00	2,250.75
March*	535	18,305.53	34.22	15,515.00	2,790.53
April**	513	17,567.82	34.25	17,185.50	382.32
May**	513	17,580.68	34.27	17,185.50	395.18
June**	540	18,443.53	34.15	18,090.00	353.53
July**	587	20,078.47	34.21	19,664.50	413.97
August**	586	20,078.45	34.26	19,631.00	447.45
September**	571	19,557.23	34.25	19,128.50	428.73
October**	519	17,703.21	34.11	17,386.50	316.71
November**	485	16,571.36	34.17	16,247.50	323.86
December**	561	19142.27	34.12	18,793.50	348.77
Total	6309	215476.68	34.15	204898.50	10578.18

Note:

*Base tonnage is @ 29 tons per load: Jan - Mar 2010.

**Base tonnage is @ 33.5 tons per load: Apr - Dec 2010.

Combined Station MSW Densified and Transported to Arlington

2010

Month	# Loads	Tons Densified	Average Tons per Load	Base Tonnage	Bonus Tonnage
January	1042	35,121.06	33.71	30,218.00	4,903.06
February	972	33,038.33	33.99	28,188.00	4,850.33
March	1141	38,848.34	34.05	33,089.00	5,759.34
April	513	17,567.82	34.25	17,185.50	382.32
May	513	17,580.68	34.27	17,185.50	395.18
June	540	18,443.53	34.15	18,090.00	353.53
July	587	20,078.47	34.21	19,664.50	413.97
August	586	20,078.45	34.26	19,631.00	447.45
September	571	19,557.23	34.25	19,128.50	428.73
October	519	17,703.21	34.11	17,386.50	316.71
November	485	16,571.36	34.17	16,247.50	323.86
December	561	19,142.27	34.12	18,793.50	348.77
Total	8030	273,730.75	34.09	254,807.50	18,923.25

Total Commodities Shipped

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	1,564.25	1,357.96	1,505.80	1,558.34	1,533.33	1,639.33	1,624.51	1,499.97	1,320.16	1,464.24	1,380.27	1,234.91	17,682.49
2010	1,283.93	1,349.75	1,547.50	1,504.23	1,640.09	1,674.44	1,647.57	1,586.31	1,526.13	1,483.26	1,304.53	1,215.03	17,762.77
	-280.32	-7.61	41.70	-54.11	106.76	35.11	23.06	86.34	205.95	19.02	-75.74	-19.88	80.28

Net Recovered From Dry Tons

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	1,289.35	1,128.34	1,255.12	1,243.47	1,155.49	1,268.90	1,281.90	1,183.07	1,053.38	1,246.93	1,138.67	1,120.77	14,365.39
2010	1,134.28	1,130.77	1,320.84	1,230.76	1,366.21	1,377.97	1,348.22	1,319.57	1,310.69	1,291.22	1,146.82	1,056.01	15,033.36
	-155.07	2.43	65.72	-12.71	210.72	109.07	66.32	136.50	257.31	44.29	8.15	-54.76	667.97

Inbound Dry Waste Tons

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	7,549.37	8,127.23	7,016.10	7,719.94	7,864.68	8,418.75	9,104.63	8,546.59	8,283.59	7,363.91	6,047.22	5,625.94	89,667.95
2010	6,053.89	6,071.31	6,909.06	6,907.49	6,973.67	7,873.35	8,397.70	8,296.98	8,074.90	7,230.34	5,814.81	5,521.31	83,924.81
	-1,495.48	-55.92	-107.04	-812.45	-891.01	-545.40	-706.93	-249.61	-208.69	-133.57	-432.41	-104.63	-5,743.14

% of Dry Waste

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	17.08%	18.42%	17.89%	16.11%	14.69%	15.07%	14.08%	13.84%	12.72%	16.93%	18.83%	19.92%	16.02%
2010	18.74%	18.62%	19.12%	17.82%	19.59%	17.50%	16.05%	15.90%	16.23%	17.86%	20.42%	19.13%	17.91%
	1.66%	0.20%	1.23%	1.71%	4.90%	2.43%	1.97%	2.06%	3.51%	0.93%	1.59%	-0.79%	1.89%

Inbound MSW

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	21,005.86	16,794.32	18,861.38	19,971.73	19,671.55	20,912.12	21,685.88	20,556.35	20,524.74	19,057.10	18,279.12	18,533.90	235,854.05
2010	17,456.56	16,869.27	19,600.16	19,809.51	19,815.31	21,369.65	21,249.21	21,027.60	20,678.84	19,594.14	18,982.21	20,962.07	237,212.53
	-3,549.30	74.95	738.78	-162.22	-56.24	457.53	-436.67	471.25	152.10	537.04	703.09	2,428.17	1,358.48

Appendix B

Table 1 – 2010 Commodities Shipped

Table 2 – 2009 Commodities Shipped

Table 3 – 2010 Commodity Revenue vs. Cost

COMMODITIES SHIPPED
2010 TONS MTD

Updated
12/31/2010

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TIRES	17.06	9.04	24.91	15.61	17.18	16.93	16.27	12.46	11.28	42.94	10.38	10.78	204.84
FERROUS METAL	249.65	275.23	305.51	276.41	293.50	322.07	335.71	300.81	297.77	283.91	208.66	208.43	3,357.66
FOAM PAD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.68	8.16	3.89	15.73
YARD DEBRIS	112.36	149.16	129.45	139.16	138.63	162.43	156.24	127.38	130.29	111.88	111.89	103.34	1,572.21
CARDBOARD	43.64	69.48	62.83	57.99	56.48	65.45	57.07	54.24	54.98	51.92	57.30	52.50	683.88
NON-FERROUS METAL	14.17	15.00	15.71	12.73	13.45	7.99	12.49	8.87	8.61	12.66	19.33	17.13	158.14
GLASS	15.73	12.98	15.52	15.29	12.18	9.33	20.21	27.71	0.00	15.25	16.56	18.31	179.07
OIL/ANTI-FREEZE	9.38	10.13	13.81	14.57	11.37	11.80	9.67	8.79	10.73	15.50	8.62	4.85	129.22
BATTERIES	3.09	1.36	2.85	1.19	3.38	3.42	3.81	3.52	2.87	2.83	2.31	2.16	32.79
OIL FILTERS	0.00	0.00	0.66	0.00	0.00	0.34	0.00	0.00	0.00				1.00
ROOFING	0.00	0.00	0.00	0.00	18.27	42.50	43.24	19.97	0.00	0.00			123.98
COMMINGLED	32.02	10.53	31.46	18.57	30.78	20.78	22.25	20.40	16.09	22.22	21.62	22.41	269.13
MILLWOOD	700.62	663.47	814.32	831.59	945.73	880.72	860.34	879.33	885.42	809.37	756.14	718.63	9,745.68
FILM PLASTIC	1.67	0.00	3.51	0.00	0.00	0.00	1.71		1.78		1.24		9.91
RUBBLE	35.54	84.78	71.53	77.05	64.54	83.14	70.53	80.45	69.97	73.89	51.71	31.75	794.88
ELECTRONICS	40.05	36.49	42.55	34.73	29.23	40.50	34.11	36.13	31.01	31.81	28.76	20.15	405.52
PROPANE 1-LBS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13			1.13
CARPET	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00
TEXTILES RECYCLING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
COMMUNITY RECYCLING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.43		0.43
PROPANE 5-LBS	1.49	2.30	1.13	0.00	1.70	2.78	1.47	3.61	1.61	1.45	1.42	0.70	19.66
RE-BUILDING CENTER	0.85	5.25	8.83	0.00	0.37	0.00	0.49	0.70	0.58				17.07
SVDP (RE-USE)	6.09	3.89	2.56	9.16	2.74	3.87	1.77	1.80	2.35	2.53			36.76
PLASTIC NURSERY POTS	0.52	0.66	0.36	0.18	0.56	0.39	0.19	0.14	0.79	0.29			4.08
													0.00
													0.00
													0.00
													0.00
TOTAL	1,283.93	1,349.75	1,547.50	1,504.23	1,640.09	1,674.44	1,647.57	1,586.31	1,526.13	1,483.26	1,304.53	1,215.03	17,762.77
Metro Dry	6,053.89	6,071.31	6,909.06	6,907.49	6,973.67	7,873.35	8,397.70	8,296.98	8,074.90	7,230.34	5,614.81	5,521.31	83,924.81
Less Yard Debris	149.65	218.98	226.66	273.47	273.88	296.47	299.35	266.74	215.44	192.04	157.71	159.02	2,729.41
Net Recovered	1,134.28	1,130.77	1,320.84	1,230.76	1,366.21	1,377.97	1,348.22	1,319.57	1,310.69	1,291.22	1,146.82	1,066.01	15,033.36
INBOUND MSW	17,456.56	16,869.27	19,600.16	19,809.51	19,615.31	21,369.65	21,249.21	21,027.60	20,676.84	19,594.14	18,982.21	20,962.07	237,212.53
OUTBOUND MSW	15,353.01	15,097.73	18,305.53	18,793.85	17,580.58	18,473.15	20,078.46	20,078.38	19,557.23	18,010.15	18,001.78	20,475.11	219,804.96
% recovered to MSW	7.36%	8.00%	7.90%	7.59%	8.36%	7.84%	7.75%	7.54%	7.38%	7.57%	6.87%	5.80%	7.49%
% of Dry Recovered	18.74%	18.62%	19.12%	17.82%	19.59%	17.50%	16.05%	15.90%	16.23%	17.86%	20.42%	19.13%	17.91%
% Dry to MSW	34.68%	35.99%	35.25%	34.87%	35.55%	36.84%	39.52%	39.46%	39.05%	36.90%	29.58%	26.34%	35.38%

Metro South Recovery Revenue Report

April 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	15.61	2	\$ -	\$ 1,170.75	-\$1,170.75
FERROUS METAL	276.41	68	\$ 51,025.30	\$ 981.00	\$50,044.30
FOAM PAD	-	0	\$ -	\$ -	\$0.00
YARD DEBRIS	139.16	8	\$ -	\$ 1,489.52	-\$1,489.52
CARDBOARD	57.99	3	\$ 4,055.10	\$ 558.57	\$3,496.53
NON-FERROUS METAL	12.73	6	\$ 10,188.00	\$ -	\$10,188.00
GLASS	15.29	3	\$ 152.90	\$ 285.00	-\$132.10
OIL/ANTI-FREEZE	14.57	4	\$ 2,011.90	\$ -	\$2,011.90
BATTERIES	1.19	1	\$ 132.00	\$ -	\$132.00
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	-	0	\$ -	\$ -	\$0.00
COMMINGLED	18.57	4	\$ 594.80	\$ 280.00	\$314.80
MILLWOOD	831.59	57	\$ 2,791.20	\$ 16,383.60	-\$13,592.40
FILM PLASTIC	-	0	\$ -	\$ -	\$0.00
RUBBLE	77.05	8	\$ -	\$ 760.00	-\$760.00
ELECTRONICS	34.73	12	\$ 4,167.60	\$ -	\$4,167.60
PROPANE 5-LBS	-	0	\$ -	\$ -	\$0.00
RE-BUILDING CENTER	-	0	\$ -	\$ -	\$0.00
SVDP (RE-USE)	9.16	3	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.18	1	\$ -	\$ -	\$0.00

1,504.23

\$53,210.36

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

May 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	17.18	2	\$ -	\$ 1,288.50	-\$1,288.50
FERROUS METAL	293.50	75	\$ 45,400.20	\$ 1,584.00	\$43,816.20
METRO METALS		72	\$ 45,400.20	\$ -	
SVDP		3	\$ -	\$ 1,584.00	
FOAM PAD	-	0	\$ -	\$ -	\$0.00
YARD DEBRIS	138.63	8	\$ -	\$ 1,489.52	-\$1,489.52
CARDBOARD	56.48	4	\$ 3,935.40	\$ 628.57	\$3,306.83
NON-FERROUS METAL	13.45	5	\$ 10,247.00	\$ -	\$10,247.00
GLASS	12.18	2	\$ 121.80	\$ 190.00	-\$68.20
OIL/ANTI-FREEZE	11.37	3	\$ 1,315.70	\$ -	\$1,315.70
BATTERIES	3.38	2	\$ 441.52	\$ -	\$441.52
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	18.27	2	\$ -	\$ 839.40	-\$839.40
COMMINGLED	30.78	5	\$ 618.80	\$ 350.00	\$268.80
MILLWOOD	945.73	65	\$ 3,025.15	\$ 18,490.28	-\$15,465.13
SP RECYCLING		42	\$ 3,025.15	\$ 12,740.28	
NWWF		23	\$ -	\$ 5,750.00	
FILM PLASTIC	-	0	\$ -	\$ -	\$0.00
RUBBLE	64.54	5	\$ -	\$ 475.00	-\$475.00
ELECTRONICS	29.23	10	\$ 3,507.60	\$ -	\$3,507.60
PROPANE 5-LBS	1.70	1	\$ -	\$ 338.00	-\$338.00
RE-BUILDING CENTER	0.37	1	\$ -	\$ -	\$0.00
SVDP (RE-USE)	2.74	2	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.56	2	\$ -	\$ -	\$0.00
	1,640.09				\$42,939.90

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

June 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	16.93	2	\$ -	\$ 1,269.75	-\$1,269.75
FERROUS METAL	322.07	77	\$ 47,462.40	\$ 1,692.00	\$45,770.40
METRO METALS		74	\$ 47,462.40	\$ -	
SVDP		3	\$ -	\$ 1,692.00	
FOAM PAD	3.24	1	\$ -	\$ -	\$0.00
YARD DEBRIS	162.43	9	\$ -	\$ 1,675.71	-\$1,675.71
CARDBOARD	65.45	8	\$ 4,326.70	\$ 908.57	\$3,418.13
NON-FERROUS METAL	7.99	5	\$ 7,464.00	\$ -	\$7,464.00
GLASS	9.33	2	\$ 93.30	\$ 190.00	-\$96.70
OIL/ANTI-FREEZE	11.80	5	\$ 1,752.30	\$ 195.00	\$1,557.30
BATTERIES	3.42	2	\$ 752.48	\$ -	\$752.48
OIL FILTERS	0.34	1	\$ -	\$ 195.00	-\$195.00
ROOFING	42.50	5	\$ -	\$ 200.00	-\$200.00
COMMINGLED	20.78	4	\$ 765.62	\$ 280.00	\$485.62
MILLWOOD	880.72	61	\$ 2,455.10	\$ 17,063.56	-\$14,608.46
SP RECYCLING		34	\$ 2,455.10	\$ 10,313.56	
NWWF		27	\$ -	\$ 6,750.00	
FILM PLASTIC	-	0	\$ -	\$ -	\$0.00
RUBBLE	83.14	6	\$ -	\$ 570.00	-\$570.00
ELECTRONICS	40.50	14	\$ 4,860.00	\$ -	\$4,860.00
PROPANE 5-LBS	2.78	2	\$ -	\$ 480.00	-\$480.00
RE-BUILDING CENTER	-	0	\$ -	\$ -	\$0.00
SVDP (RE-USE)	3.87	2	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.39	2	\$ -	\$ -	\$0.00
	1,677.68				\$45,212.31

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

July 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	16.27	2	\$ -	\$ 1,220.25	-\$1,220.25
FERROUS METAL	335.71	86	\$ 48,792.00	\$ 2,394.00	\$46,398.00
METRO METALS		82	\$ 48,792.00	\$ -	
SVDP		4	\$ -	\$ 2,394.00	
FOAM PAD	-	0		\$ -	\$0.00
YARD DEBRIS	156.24	11	\$ -	\$ 2,048.09	-\$2,048.09
CARDBOARD	57.07	20	\$ 4,256.00	\$ 1,864.76	\$2,391.24
NON-FERROUS METAL	12.49	4	\$ 7,254.00	\$ -	\$7,254.00
GLASS	20.21	2	\$ 202.10	\$ 190.00	\$12.10
OIL/ANTI-FREEZE	9.67	3	\$ 1,624.27	\$ 391.75	\$1,232.52
BATTERIES	3.81	2	\$ 590.00	\$ -	\$590.00
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	43.24	4	\$ -	\$ 1,081.00	-\$1,081.00
COMMINGLED	22.25	5	\$ 934.50	\$ 350.00	\$584.50
MILLWOOD	860.34	63	\$ 728.45	\$ 16,336.74	-\$15,608.29
SP RECYCLING		11	\$ 728.45	\$ 3,336.74	
NWWF		52	\$ -	\$ 13,000.00	
FILM PLASTIC	1.71	1	\$ -	\$ 70.00	-\$70.00
RUBBLE	70.53	7	\$ -	\$ 665.00	-\$665.00
ELECTRONICS	34.11	11	\$ 4,093.20	\$ -	\$4,093.20
PROPANE 5-LBS	1.47	1	\$ -	\$ 284.00	-\$284.00
RE-BUILDING CENTER	0.49	1	\$ -	\$ -	\$0.00
SVDP (RE-USE)	1.77	2	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.19	1	\$ -	\$ -	\$0.00
	1,647.57				\$41,578.93

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

August 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	12.46	1	\$ -	\$ 934.50	-\$934.50
FERROUS METAL	300.81		\$ 47,003.30	\$ 1,998.00	\$45,005.30
METRO METALS		73	\$ 47,003.30	\$ -	
SVDP		3	\$ -	\$ 1,998.00	
FOAM PAD	-	0	\$ -	\$ -	\$0.00
YARD DEBRIS	127.38	12	\$ -	\$ 2,234.28	-\$2,234.28
CARDBOARD	54.24	10	\$ 4,164.00	\$ 1,745.71	\$2,418.29
NON-FERROUS METAL	8.87	837	\$ 6,074.00	\$ -	\$6,074.00
GLASS	27.71	4	\$ 144.10	\$ 356.26	-\$212.16
OIL/ANTI-FREEZE	8.79	5	\$ 930.43	\$ -	\$930.43
BATTERIES	3.52	2	\$ 749.00	\$ -	\$749.00
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	19.97	2	\$ -	\$ 190.00	-\$190.00
COMMINGLED	20.40	5	\$ 856.80	\$ 420.00	\$436.80
MILLWOOD	879.33	74	\$ 1,295.30	\$ 19,566.80	-\$18,271.50
SP RECYCLING		20	\$ 1,295.30	\$ 6,066.80	
NWWF		54	\$ -	\$ 13,500.00	
FILM PLASTIC	-	0	\$ -	\$ -	\$0.00
RUBBLE	80.45	2	\$ -	\$ 190.00	-\$190.00
ELECTRONICS	36.13	12	\$ 4,335.60	\$ -	\$4,335.60
PROPANE 5-LBS	3.61	2	\$ -	\$ 610.00	-\$610.00
RE-BUILDING CENTER	0.70	1	\$ -	\$ -	\$0.00
SVDP (RE-USE)	1.80	1	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.14	1	\$ -	\$ -	\$0.00
	1,586.31				\$37,306.98

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

September 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	11.28	1	\$ -	\$ 846.00	-\$846.00
FERROUS METAL	297.77	72	\$ 49,647.60	\$ 1,935.00	\$47,712.60
METRO METALS		69	\$ 49,647.60	\$ -	
SVDP		3	\$ -	\$ 1,935.00	
FOAM PAD	-	0	\$ -	\$ -	\$0.00
YARD DEBRIS	130.29	9	\$ -	\$ 1,675.71	-\$1,675.71
CARDBOARD	54.98	7	\$ 5,332.00	\$ 1,303.33	\$4,028.67
NON-FERROUS METAL	8.61	2	\$ 7,304.60	\$ -	\$7,304.60
GLASS	-	0	\$ -	\$ -	\$0.00
OIL/ANTI-FREEZE	10.73	5	\$ 799.05	\$ 354.47	\$444.58
BATTERIES	2.87	2	\$ 422.48	\$ -	\$422.48
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	-	0	\$ -	\$ -	\$0.00
COMMINGLED	16.09	4	\$ 740.14	\$ 280.00	\$460.14
MILLWOOD	885.42	70	\$ 1,929.05	\$ 19,206.88	-\$17,277.83
SP RECYCLING		32	\$ 1,929.05	\$ 9,706.88	
NWWF		38	\$ -	\$ 9,500.00	
FILM PLASTIC	1.78	1	\$ -	\$ 70.00	-\$70.00
RUBBLE	69.97	6	\$ -	\$ 570.00	-\$570.00
ELECTRONICS	31.01	10	\$ 3,721.20	\$ -	\$3,721.20
PROPANE 5-LBS	1.61	1	\$ -	\$ 306.00	-\$306.00
RE-BUILDING CENTER	0.58	1	\$ -	\$ -	\$0.00
SVDP (RE-USE)	2.35	1	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.79	2	\$ -	\$ -	\$0.00

\$43,348.73

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

October 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	42.94	4	\$ -	\$ 2,733.75	-\$2,733.75
FERROUS METAL	283.91	66	\$ 44,177.90	\$ 2,187.00	\$41,990.90
METRO METALS		62	\$ 44,177.90	\$ -	
SVDP		4	\$ -	\$ 2,187.00	
FOAM PAD	3.68	2	\$ 294.40	\$ -	\$294.40
YARD DEBRIS	111.88	8	\$ -	\$ 1,493.12	-\$1,493.12
CARDBOARD	51.92	8	\$ 4,940.00	\$ 1,376.48	\$3,563.52
NON-FERROUS METAL	12.66	5	\$ 9,024.88	\$ -	\$9,024.88
GLASS	15.25	1	\$ -	\$ 95.00	-\$95.00
ANTI-FREEZE/OIL	15.50	7	\$ 115.80	\$ -	\$115.80
BATTERIES	2.83	2	\$ 441.48	\$ -	\$441.48
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	-	0	\$ -	\$ -	\$0.00
COMMINGLED	22.22	5	\$ 1,327.04	\$ 350.00	\$977.04
MILLWOOD	809.37	63	\$ 1,331.25	\$ 16,998.66	-\$15,667.41
SP RECYCLING		21	\$ 1,331.25	\$ 6,412.98	
NWWF		42	\$ -	\$ 10,585.68	
FILM PLASTIC	-	0	\$ -	\$ -	\$0.00
RUBBLE	73.89	7	\$ -	\$ 665.00	-\$665.00
ELECTRONICS	31.81	11	\$ 3,817.20	\$ -	\$3,817.20
PROPANE 5-LBS	2.58	1	\$ -	\$ 292.00	-\$292.00
RE-BUILDING CENTER	-	0	\$ -	\$ -	\$0.00
SVDP (RE-USE)	2.53	1	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	0.29	1	\$ -	\$ -	\$0.00

\$39,278.94

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

November 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	10.38	1	\$ -	\$ 778.50	-\$778.50
FERROUS METAL	213.23	49	\$ 33,484.50	\$ 612.00	\$32,872.50
METRO METALS		49	\$ 33,484.50	\$ -	
SVDP		1	\$ -	\$ 612.00	
FOAM PAD	8.16	6	\$ 652.80	\$ -	\$652.80
YARD DEBRIS	111.89	5	\$ -	\$ 2,501.20	-\$2,501.20
CARDBOARD	57.30	7	\$ 5,595.00	\$ 1,188.64	\$4,406.36
NON-FERROUS METAL	13.78	4	\$ 10,319.60	\$ -	\$10,319.60
GLASS	16.56	2	\$ -	\$ 190.00	-\$190.00
OIL/ANTI-FREEZE	8.62	5	\$ 584.85	\$ 414.00	\$170.85
BATTERIES	2.31	2	\$ 349.00	\$ -	\$349.00
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	-	0	\$ -	\$ -	\$0.00
COMMINGLED	21.62	4	\$ 1,360.99	\$ 280.00	\$1,080.99
MILLWOOD	729.94	54	\$ 1,217.85	\$ 11,321.16	-\$10,103.31
SP RECYCLING		19	\$ 1,217.85	\$ 4,788.76	
NWWF		35	\$ -	\$ 6,532.40	
FILM PLASTIC	1.24	1	\$ -	\$ 85.00	-\$85.00
RUBBLE	51.71	5	\$ -		\$0.00
ELECTRONICS	28.76	11	\$ 3,451.20	\$ -	\$3,451.20
PROPANE 5-LBS	1.42	1	\$ -	\$ 258.00	-\$258.00
RE-BUILDING CENTER	-	0	\$ -	\$ -	\$0.00
SVDP (RE-USE)	0.43	1	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	-	0	\$ -	\$ -	\$0.00

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Metro South Recovery Revenue Report

December 2010

Material	Tons	Loads/Units	TRUX	Cost	Net revenue
TIRES	10.78	1	\$ -	\$ 808.50	-\$808.50
FERROUS METAL	208.43	53	\$ 38,012.00	\$ 1,800.00	\$36,212.00
METRO METALS		51	\$ 38,012.00	\$ -	
SVDP		2	\$ -	\$ 1,800.00	
FOAM PAD	3.89	2	\$ 311.20	\$ -	\$311.20
YARD DEBRIS	103.34	5	\$ -	\$ 2,508.20	-\$2,508.20
CARDBOARD	52.50	6	\$ 2,380.00	\$ 1,118.64	\$1,261.36
WALSH		6	\$ 2,380.00	\$ 1,118.64	
4455		0	\$ -	\$ -	
NON-FERROUS METAL	17.13	6	\$ 12,795.80	\$ -	\$12,795.80
GLASS	18.31	1	\$ -	\$ 95.00	-\$95.00
OIL/ANTI-FREEZE	4.85	3	\$ 460.60	\$ -	\$460.60
BATTERIES	2.16	2	\$ 372.48	\$ -	\$372.48
OIL FILTERS	-	0	\$ -	\$ -	\$0.00
ROOFING	-	0	\$ -	\$ -	\$0.00
COMMINGLED	22.41	6	\$ 1,559.13	\$ 420.00	\$1,139.13
MILLWOOD	718.63	45	\$ 1,833.00	\$ 12,728.64	-\$10,895.64
SP NEWSPRINT		26	\$ 1,833.00	\$ 7,939.88	
NWWF		19	\$ -	\$ 4,788.76	
FILM PLASTIC	-	0	\$ -	\$ -	\$0.00
RUBBLE	31.75	2	\$ -	\$ 190.00	-\$190.00
ELECTRONICS	20.09	7	\$ 2,410.80	\$ -	\$2,410.80
PROPANE 5-LBS	0.70	1	\$ -	\$ 136.00	-\$136.00
RE-BUILDING CENTER	-	0	\$ -	\$ -	\$0.00
SVDP (RE-USE)	-	0	\$ -	\$ -	\$0.00
PLASTIC NURSERY POTS	-	0	\$ -	\$ -	\$0.00

\$40,330.03

Tons = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

Appendix C

Exhibit 1 – 2/26/2010

Exhibit 2 – 3/29/2010

Exhibit 3 – 11/6/2010

Exhibit 4 – 11/22/2010

Exhibit 5 – 12/9/2010

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210
ORELAP#: OR100021

March 15, 2010

Kelly Herrod
Republic Services-Shipping only
2001 Washington St
Oregon City, OR 97045

RE: Stormwater Discharge

Enclosed are the results of analyses for samples received by the laboratory on 03/01/10 07:20.
The following list is a summary of the Work Orders contained in this report, generated on 03/15/10
17:42.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTC0007	Stormwater Discharge	Q1 Storm Water Sampling 2 o

TestAmerica Portland

Brian L. Cone

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: Q1 Storm Water Sampling 2 of 2 Project Manager: Kelly Herrod	Report Created: 03/15/10 17:42
---	--	-----------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall #1	PTC0007-01	Water	02/26/10 12:40	03/01/10 07:20
Outfall #2	PTC0007-02	Water	02/26/10 12:35	03/01/10 07:20
Outfall #3	PTC0007-03	Water	02/26/10 12:45	03/01/10 07:20
Outfall #4	PTC0007-04	Water	02/26/10 12:55	03/01/10 07:20
Outfall #5	PTC0007-05	Water	02/26/10 13:00	03/01/10 07:20
Outfall #6	PTC0007-06	Water	02/26/10 13:10	03/01/10 07:20

TestAmerica Portland



Brian Cone, Industrial Services Manager

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Republic Services-Shipping only	Project Name: Stormwater Discharge	Report Created:
2001 Washington St	Project Number: Q1 Storm Water Sampling 2 of 2	03/15/10 17:42
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Oil and Grease Analysis per EPA Method 1664
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01 (Outfall #1)	Water					Sampled: 02/26/10 12:40				
Oil & Grease	EPA 1664	ND	---	4.85	mg/l	1x	10C0365	03/12/10 11:30	03/12/10 13:57	
PTC0007-02 (Outfall #2)	Water					Sampled: 02/26/10 12:35				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10C0365	03/12/10 11:30	03/12/10 13:57	
PTC0007-03 (Outfall #3)	Water					Sampled: 02/26/10 12:45				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10C0365	03/12/10 12:20	03/12/10 13:57	
PTC0007-04 (Outfall #4)	Water					Sampled: 02/26/10 12:55				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10C0365	03/12/10 12:20	03/12/10 13:57	
PTC0007-05 (Outfall #5)	Water					Sampled: 02/26/10 13:00				
Oil & Grease	EPA 1664	ND	---	4.85	mg/l	1x	10C0365	03/12/10 12:20	03/12/10 13:57	
PTC0007-06 (Outfall #6)	Water					Sampled: 02/26/10 13:10				
Oil & Grease	EPA 1664	ND	---	4.81	mg/l	1x	10C0365	03/12/10 12:20	03/12/10 13:57	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-Shipping only	Project Name: Stormwater Discharge	Report Created:
2001 Washington St	Project Number: Q1 Storm Water Sampling 2 of 2	03/15/10 17:42
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Total Metals per EPA 200 Series Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01 (Outfall #1)		Water				Sampled: 02/26/10 12:40				
Copper	EPA 200.8	0.0271	----	0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 18:21	
Lead	"	0.0438	----	0.00100	"	"	"	"	"	
Zinc	"	0.217	----	0.0100	"	"	"	"	"	
PTC0007-02 (Outfall #2)		Water				Sampled: 02/26/10 12:35				
Copper	EPA 200.8	0.0184	----	0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 18:29	
Lead	"	0.0247	----	0.00100	"	"	"	"	"	
Zinc	"	0.0941	----	0.0100	"	"	"	"	"	
PTC0007-03 (Outfall #3)		Water				Sampled: 02/26/10 12:45				
Copper	EPA 200.8	0.0128	----	0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 19:00	
Lead	"	0.0174	----	0.00100	"	"	"	"	"	
Zinc	"	0.101	----	0.0100	"	"	"	"	"	
PTC0007-04 (Outfall #4)		Water				Sampled: 02/26/10 12:55				
Copper	EPA 200.8	0.0556	----	0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 19:07	
Lead	"	0.165	----	0.00100	"	"	"	"	"	
Zinc	"	0.534	----	0.0100	"	"	"	"	"	
PTC0007-05 (Outfall #5)		Water				Sampled: 02/26/10 13:00				
Copper	EPA 200.8	0.0152	----	0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 19:15	
Lead	"	0.0350	----	0.00100	"	"	"	"	"	
Zinc	"	0.133	----	0.0100	"	"	"	"	"	
PTC0007-06 (Outfall #6)		Water				Sampled: 02/26/10 13:10				
Copper	EPA 200.8	0.0132	----	0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 19:23	
Lead	"	0.00812	----	0.00100	"	"	"	"	"	
Zinc	"	0.0762	----	0.0100	"	"	"	"	"	

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Brian L Cone

Brian Cone, Industrial Services Manager

Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: Q1 Storm Water Sampling 2 of 2 Project Manager: Kelly Herrod	Report Created: 03/15/10 17:42
---	--	-----------------------------------

Conventional Chemistry Parameters per Standard Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01 (Outfall #1)		Water				Sampled: 02/26/10 12:40				
Total Suspended Solids	SM 2540D	210	----	10.0	mg/l	1x	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-02 (Outfall #2)		Water				Sampled: 02/26/10 12:35				
Total Suspended Solids	SM 2540D	20.0	----	10.0	mg/l	1x	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-03 (Outfall #3)		Water				Sampled: 02/26/10 12:45				
Total Suspended Solids	SM 2540D	70.0	----	10.0	mg/l	1x	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-04 (Outfall #4)		Water				Sampled: 02/26/10 12:55				
Total Suspended Solids	SM 2540D	100	----	10.0	mg/l	1x	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-05 (Outfall #5)		Water				Sampled: 02/26/10 13:00				
Total Suspended Solids	SM 2540D	60.0	----	10.0	mg/l	1x	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-06 (Outfall #6)		Water				Sampled: 02/26/10 13:10				
Total Suspended Solids	SM 2540D	10.0	----	10.0	mg/l	1x	10C0143	03/04/10 16:32	03/04/10 17:39	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge	Report Created:
	Project Number: Q1 Storm Water Sampling 2 of 2	03/15/10 17:42
	Project Manager: Kelly Herrod	

Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01 (Outfall #1)				Water				Sampled: 02/26/10 12:40		
pH	EPA 150.1	7.73	----		pH Units	1x	10C0081	02/26/10 12:45	02/26/10 12:50	
PTC0007-02 (Outfall #2)				Water				Sampled: 02/26/10 12:35		
pH	EPA 150.1	7.02	----		pH Units	1x	10C0081	02/26/10 12:40	02/26/10 12:45	
PTC0007-03 (Outfall #3)				Water				Sampled: 02/26/10 12:45		
pH	EPA 150.1	7.06	----		pH Units	1x	10C0081	02/26/10 12:50	02/26/10 12:55	
PTC0007-04 (Outfall #4)				Water				Sampled: 02/26/10 12:55		
pH	EPA 150.1	7.44	----		pH Units	1x	10C0081	02/26/10 13:00	02/26/10 13:05	
PTC0007-05 (Outfall #5)				Water				Sampled: 02/26/10 13:00		
pH	EPA 150.1	7.35	----		pH Units	1x	10C0081	02/26/10 13:05	02/26/10 13:10	
PTC0007-06 (Outfall #6)				Water				Sampled: 02/26/10 13:10		
pH	EPA 150.1	7.46	----		pH Units	1x	10C0081	02/26/10 13:15	02/26/10 13:20	

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

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Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: Q1 Storm Water Sampling 2 of 2 Project Manager: Kelly Herrod	Report Created: 03/15/10 17:42
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Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results
 TestAmerica Portland

QC Batch: 10C0365 Water Preparation Method: O&G prep CE

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10C0365-BLK1)													Extracted: 03/12/10 10:45			
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	03/12/10 13:57			
LCS (10C0365-BS1)													Extracted: 03/12/10 10:45			
Oil & Grease	EPA 1664	40.1	---		mg/l	1x	--	40.0	100%	(78-114)	--	--	03/12/10 13:57			
Matrix Spike (10C0365-MS1)													QC Source: PTC0047-01		Extracted: 03/12/10 10:45	
Oil & Grease	EPA 1664	42.6	---		mg/l	1x	3.56	40.0	97.6%	(78-114)	--	--	03/12/10 13:57			
Matrix Spike Dup (10C0365-MSD1)													QC Source: PTC0047-01		Extracted: 03/12/10 10:45	
Oil & Grease	EPA 1664	40.5	---		mg/l	1x	3.56	40.0	92.4%	(78-114)	5.05%	(18)	03/12/10 13:57			

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge	Report Created: 03/15/10 17:42
	Project Number: Q1 Storm Water Sampling 2 of 2	
	Project Manager: Kelly Herrod	

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10C0047 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10C0047-BLK1)													Extracted: 03/02/10 11:41	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	03/03/10 16:05	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (10C0047-BS1)													Extracted: 03/02/10 11:41	
Copper	EPA 200.8	0.0959	---	0.00200	mg/l	1x	--	0.100	95.9%	(85-115)	--	--	03/03/10 16:13	
Lead	"	0.0972	---	0.00100	"	"	--	"	97.2%	"	--	--	"	
Zinc	"	0.0936	---	0.0100	"	"	--	"	93.6%	"	--	--	"	
Duplicate (10C0047-DUP1)													QC Source: PTB0817-01 Extracted: 03/02/10 11:41	
Copper	EPA 200.8	0.682	---	0.00400	mg/l	2x	0.678	--	--	--	0.559% (20)	--	03/03/10 16:59	
Lead	"	0.0100	---	0.00200	"	"	0.0101	--	--	--	1.19%	"	"	
Zinc	"	0.392	---	0.0200	"	"	0.393	--	--	--	0.102%	"	"	
Matrix Spike (10C0047-MS1)													QC Source: PTB0817-01 Extracted: 03/02/10 11:41	
Copper	EPA 200.8	0.759	---	0.00400	mg/l	2x	0.678	0.100	81.4%	(75-125)	--	--	03/03/10 17:06	
Lead	"	0.0976	---	0.00200	"	"	0.0101	"	87.5%	"	--	--	"	
Zinc	"	0.477	---	0.0200	"	"	0.393	"	84.2%	(70-130)	--	--	"	
Matrix Spike (10C0047-MS2)													QC Source: PTC0007-02 Extracted: 03/02/10 11:41	
Copper	EPA 200.8	0.112	---	0.00200	mg/l	1x	0.0184	0.100	94.0%	(75-125)	--	--	03/03/10 18:37	
Lead	"	0.123	---	0.00100	"	"	0.0247	"	98.5%	"	--	--	"	
Zinc	"	0.190	---	0.0100	"	"	0.0941	"	95.5%	(70-130)	--	--	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: Q1 Storm Water Sampling 2 of 2 Project Manager: Kelly Herrod	Report Created: 03/15/10 17:42
---	--	-----------------------------------

Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results
 TestAmerica Portland

QC Batch: 10C0143 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10C0143-BLK1)											Extracted: 03/04/10 16:32					
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	03/04/10 17:39			
LCS (10C0143-BS1)											Extracted: 03/04/10 16:32					
Total Suspended Solids	SM 2540D	60.0	---	10.0	mg/l	1x	--	60.0	100%	(80-120)	--	--	03/04/10 17:39			
Duplicate (10C0143-DUP1)											QC Source: PTC0052-01		Extracted: 03/04/10 16:32			
Total Suspended Solids	SM 2540D	20.0	---	10.0	mg/l	1x	20.0	--	--	--	0.00% (20)	--	03/04/10 17:39			

TestAmerica Portland

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Brian Cone, Industrial Services Manager

Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: Q1 Storm Water Sampling 2 of 2 Project Manager: Kelly Herrod	Report Created: 03/15/10 17:42
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Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland



Brian Cone, Industrial Services Manager

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CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PTC0007

Client Name/Account #: Repubic Services Metro South

TURN AROUND REQUEST: 10 DAY

Address: 2001 Washington St

City/State/Zip: Oregon City, OR 97045

Project Manager: Kelly Herrod

Report To: Kelly Herrod

Telephone Number: 503-722-4656

Fax No.: _____

Invoice To: _____

Sampler Name: (Print) Jeremy Morgan

TA Quote #: _____

Sampler Signature: *[Signature]*

Project ID: Stormwater

Project #: _____

Tag ID: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative			Matrix			Analyze For:																									
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	250mL Poly Unpreserved	Stormwater						O&G	Cu,Pb,Zn	TSS	Sampling-Grab	FT-PH #1: 7.73	FT-PH Time #1: 12:45	FT-PH #2: 7.02	FT-PH Time #2: 12:40	FT-PH #3: 7.66	FT-PH Time #3: 12:50	FT-PH #4: 7.44	FT-PH Time #4: 13:00	FT-PH #5: 7.35	FT-PH Time #5: 13:05	FT-PH #6: 7.46	FT-PH Time #6: 13:15							
Outfall #1	2-26	1240	5	X		X	X	X	X				X	X	X	X	X																				
Outfall #2	2-26	1235	5	X		X	X	X	X				X	X	X			X																			
Outfall #3	2-26	1245	5	X		X	X	X	X				X	X	X						X																
Outfall #4	2-26	1255	5	X		X	X	X	X				X	X	X							X															
Outfall #5	2-26	1300	5	X		X	X	X	X				X	X	X											X											
Outfall #6	2-26	1310	5	X		X	X	X	X				X	X	X																					X	

Special Instructions: _____ Laboratory Comments: Temperature Upon Receipt: 5.6

Received by TestAmerica:	Date	Time
<u><i>[Signature]</i></u> Jeremy Morgan	<u>2-26</u>	<u>1310</u>
IN LAB	Date	Time
	<u>3-1-10</u>	<u>0720</u>

1.0
3.2

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTC0007 Date/Time Received: 3/1/10 720
 Client Name and Project: Republic Services

Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:
 Cooler #(s): 1 1 1 _____
 Temperatures: 5.6 1.0 3.2 _____
 Digi #1 Digi #2 IR Gun
 (Plastic Glass)

Temperature out of Range:
 _____ Not enough or No Ice
 _____ Ice Melted
 _____ W/in 4 Hrs of collection
 _____ Other: _____

- N/A Yes No Initials: dm
- 1. If ESI client, were temp blanks received? If no, document on NOD.
 - 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
 - 3. Chain of Custody present? If no, document on NOD.
 - 4. Bottles received intact? If no, document on NOD.
 - 5. Sample is not multiphasic? If no, document on NOD.
 - 6. Proper Container and preservatives used? If no, document on NOD.
 - 7. pH of all samples checked and meet requirements? If no, document on NOD.
 - 8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
 - 9. HF Dilution required?
 - 10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
 - 11. Did chain of custody agree with samples received? If no, document on NOD.
 - 12. Is the "Sampled by" section of the COC completed?
 - 13. Were VOA/Oil Syringe samples without headspace?
 - 14. Were VOA vials preserved? HCl Sodium Thiosulfate Ascorbic Acid
 - 15. Did samples require preservation with sodium thiosulfate?
 - 16. If yes to #15, was the residual chlorine test negative? If no, document on NOD.
 - 17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
 - 18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
 - 19. Are analyses with short holding times received in hold?
 - 20. Was Standard Turn Around (TAT) requested?
 - 21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTC0007

Login Checks:

Initials: jm

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 25. Were special log in instructions read and followed? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 26. Were tests logged checked against the COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 27. Were rush notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 28. Were short hold notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 29. Were subcontract COCs printed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 30. Was HF dilution logged? |

Labeling and Storage Checks:

Initials: jm

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 31. Were the subcontracted samples/containers put in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 32. Were sample bottles and COC double checked for dissolved/filtered metals? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 33. Did the sample ID, Date, and Time from label match what was logged? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Were HF stickers affixed to each container, and containers stored in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Was an NOD for created for noted discrepancies and placed in folder? |

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampling Documentation Form

Client: Republic Services Metro South
Site: Oregon City / Outfalls 001-006
Project: Storm water

Sampler: Jeremy Morgan
Date: 2-26-10
Time: 1220

Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment: ISCO: _____ Other: Dippe
001 Grab Time: 1240
002 Grab Time: 1235
003 Grab Time: 1245
004 Grab Time: 1255
005 Grab Time: 1300
006 Grab Time: 1310

Field Data:

PH Meter: Thermo Scientific Orion 3 Star
001 PH: 7.73 Time Taken: 1245
002 PH: 7.02 Time Taken: 1240
003 PH: 7.06 Time Taken: 1250
004 PH: 7.44 Time Taken: 1300
005 PH: 7.35 Time Taken: 1305
006 PH: 7.46 Time Taken: 1310
PH Calibration-7.00 buffer reading: 6.95
Slope: 103.3
PH Buffer 4: 2110061
PH Buffer 7: 2110062
PH Buffer 10: 2110063

Field Conditions:

Weather: Sunny Partly cloudy Cloudy Snowing
Rainfall: Heavy Continuous Intermittent Light None

Sample Characteristics:

Color: _____ Odor: _____ TSS: Yes
Sediment: _____ Foam: _____

Observations and Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210
ORELAP#: OR100021

April 13, 2010

Kelly Herrod
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045

RE: Stormwater Discharge

Enclosed are the results of analyses for samples received by the laboratory on 03/30/10 07:00.
The following list is a summary of the Work Orders contained in this report, generated on 04/13/10
16:27.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTC0930	Stormwater Discharge	[none]

TestAmerica Portland



Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: [none] Project Manager: Kelly Herrod	Report Created: 04/13/10 16:27
---	--	-----------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall #1	PTC0930-01	Water	03/29/10 14:00	03/30/10 07:00
Outfall #2	PTC0930-02	Water	03/29/10 13:50	03/30/10 07:00
Outfall #3	PTC0930-03	Water	03/29/10 14:05	03/30/10 07:00
Outfall #4	PTC0930-04	Water	03/29/10 14:15	03/30/10 07:00
Outfall #5	PTC0930-05	Water	03/29/10 14:20	03/30/10 07:00
Outfall #6	PTC0930-06	Water	03/29/10 14:30	03/30/10 07:00

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Brian Cone, Industrial Services Manager

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Republic Services-South Metro

2001 Washington St
Oregon City, OR 97045

Project Name: **Stormwater Discharge**
Project Number: [none]
Project Manager: Kelly Herrod

Report Created:
04/13/10 16:27

Analytical Case Narrative

TestAmerica - Portland, OR

PTC0930

TestAmerica Portland

Brian L Cone

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-South Metro	Project Name: Stormwater Discharge	Report Created:
2001 Washington St	Project Number: [none]	04/13/10 16:27
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Oil and Grease Analysis per EPA Method 1664
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0930-01 (Outfall #1)	Water					Sampled: 03/29/10 14:00				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10D0357	04/13/10 11:30	04/13/10 13:18	
PTC0930-02 (Outfall #2)	Water					Sampled: 03/29/10 13:50				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10D0357	04/13/10 11:30	04/13/10 13:18	
PTC0930-03 (Outfall #3)	Water					Sampled: 03/29/10 14:05				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10D0357	04/13/10 11:30	04/13/10 13:18	
PTC0930-04 (Outfall #4)	Water					Sampled: 03/29/10 14:15				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10D0357	04/13/10 11:30	04/13/10 13:18	
PTC0930-05 (Outfall #5)	Water					Sampled: 03/29/10 14:20				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10D0357	04/13/10 12:15	04/13/10 13:18	
PTC0930-06 (Outfall #6)	Water					Sampled: 03/29/10 14:30				
Oil & Grease	EPA 1664	ND	---	4.90	mg/l	1x	10D0216	04/08/10 20:30	04/09/10 10:01	

TestAmerica Portland

Brian L. Cone

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-South Metro	Project Name: Stormwater Discharge	Report Created:
2001 Washington St	Project Number: [none]	04/13/10 16:27
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Total Metals per EPA 200 Series Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0930-01 (Outfall #1)		Water				Sampled: 03/29/10 14:00				
Copper	EPA 200.8	0.00650	----	0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 10:50	
Lead	"	0.0128	----	0.00100	"	"	"	"	"	
Zinc	"	0.0654	----	0.0100	"	"	"	"	"	
PTC0930-02 (Outfall #2)		Water				Sampled: 03/29/10 13:50				
Copper	EPA 200.8	0.00949	----	0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:22	
Lead	"	0.00254	----	0.00100	"	"	"	"	"	
Zinc	"	0.0296	----	0.0100	"	"	"	"	"	
PTC0930-03 (Outfall #3)		Water				Sampled: 03/29/10 14:05				
Copper	EPA 200.8	0.0115	----	0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:30	
Lead	"	0.00884	----	0.00100	"	"	"	"	"	
Zinc	"	0.0548	----	0.0100	"	"	"	"	"	
PTC0930-04 (Outfall #4)		Water				Sampled: 03/29/10 14:15				
Copper	EPA 200.8	0.00816	----	0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:37	
Lead	"	0.0200	----	0.00100	"	"	"	"	"	
Zinc	"	0.104	----	0.0100	"	"	"	"	"	
PTC0930-05 (Outfall #5)		Water				Sampled: 03/29/10 14:20				
Copper	EPA 200.8	0.0105	----	0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:45	
Lead	"	0.0301	----	0.00100	"	"	"	"	"	
Zinc	"	0.0948	----	0.0100	"	"	"	"	"	
PTC0930-06 (Outfall #6)		Water				Sampled: 03/29/10 14:30				
Copper	EPA 200.8	0.00525	----	0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:53	
Lead	"	0.00438	----	0.00100	"	"	"	"	"	
Zinc	"	0.0321	----	0.0100	"	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro	Project Name: Stormwater Discharge	Report Created:
2001 Washington St	Project Number: [none]	04/13/10 16:27
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Conventional Chemistry Parameters per Standard Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0930-01 (Outfall #1)		Water				Sampled: 03/29/10 14:00				
Total Suspended Solids	SM 2540D	40.0	---	10.0	mg/l	1x	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-02 (Outfall #2)		Water				Sampled: 03/29/10 13:50				
Total Suspended Solids	SM 2540D	10.0	---	10.0	mg/l	1x	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-03 (Outfall #3)		Water				Sampled: 03/29/10 14:05				
Total Suspended Solids	SM 2540D	30.0	---	10.0	mg/l	1x	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-04 (Outfall #4)		Water				Sampled: 03/29/10 14:15				
Total Suspended Solids	SM 2540D	70.0	---	10.0	mg/l	1x	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-05 (Outfall #5)		Water				Sampled: 03/29/10 14:20				
Total Suspended Solids	SM 2540D	30.0	---	10.0	mg/l	1x	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-06 (Outfall #6)		Water				Sampled: 03/29/10 14:30				
Total Suspended Solids	SM 2540D	20.0	---	10.0	mg/l	1x	10D0065	04/02/10 10:23	04/02/10 12:40	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: [none] Project Manager: Kelly Herrod	Report Created: 04/13/10 16:27
---	--	-----------------------------------

Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0930-01 (Outfall #1)				Water				Sampled: 03/29/10 14:00		
pH	EPA 150.1	7.14	----		pH Units	1x	10D0331	03/29/10 14:05	03/29/10 14:10	
PTC0930-02 (Outfall #2)				Water				Sampled: 03/29/10 13:50		
pH	EPA 150.1	7.06	----		pH Units	1x	10D0331	03/29/10 13:55	03/29/10 14:00	
PTC0930-03 (Outfall #3)				Water				Sampled: 03/29/10 14:05		
pH	EPA 150.1	6.97	----		pH Units	1x	10D0331	03/29/10 14:10	03/29/10 14:15	
PTC0930-04 (Outfall #4)				Water				Sampled: 03/29/10 14:15		
pH	EPA 150.1	7.31	----		pH Units	1x	10D0331	03/29/10 14:20	03/29/10 14:25	
PTC0930-05 (Outfall #5)				Water				Sampled: 03/29/10 14:20		
pH	EPA 150.1	7.26	----		pH Units	1x	10D0331	03/29/10 14:25	03/29/10 14:30	
PTC0930-06 (Outfall #6)				Water				Sampled: 03/29/10 14:30		
pH	EPA 150.1	7.22	----		pH Units	1x	10D0331	03/29/10 14:35	03/29/10 14:40	

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: [none] Project Manager: Kelly Herrod	Report Created: 04/13/10 16:27
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Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10D0216	Water Preparation Method: O&G prep CE
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10D0216-BLK1)													Extracted: 04/08/10 16:40			
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	04/09/10 10:01			
LCS (10D0216-BS1)													Extracted: 04/08/10 16:40			
Oil & Grease	EPA 1664	42.0	---		mg/l	1x	--	40.0	105%	(78-114)	--	--	04/09/10 10:01			
Matrix Spike (10D0216-MS1)													QC Source: PTC0877-01		Extracted: 04/08/10 16:40	
Oil & Grease	EPA 1664	49.3	---		mg/l	1x	2.45	40.0	117%	(78-114)	--	--	04/09/10 10:01	M7		
Matrix Spike Dup (10D0216-MSD1)													QC Source: PTC0877-01		Extracted: 04/08/10 16:40	
Oil & Grease	EPA 1664	44.4	---		mg/l	1x	2.45	40.0	105%	(78-114)	10.5%	(18)	04/09/10 10:01			

QC Batch: 10D0357	Water Preparation Method: O&G prep CE
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10D0357-BLK1)													Extracted: 04/13/10 10:30			
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	04/13/10 13:18			
LCS (10D0357-BS1)													Extracted: 04/13/10 10:30			
Oil & Grease	EPA 1664	46.0	---	5.00	mg/l	1x	--	46.0	100%	(78-114)	--	--	04/13/10 13:18			
Matrix Spike (10D0357-MS1)													QC Source: PTC1005-01		Extracted: 04/13/10 10:30	
Oil & Grease	EPA 1664	33.3	---	5.56	mg/l	1x	2.32	33.3	92.9%	(78-114)	--	--	04/13/10 13:18	RL4		
Matrix Spike Dup (10D0357-MSD1)													QC Source: PTC1005-01		Extracted: 04/13/10 10:30	
Oil & Grease	EPA 1664	18.7	---	5.26	mg/l	1x	2.32	18.7	87.4%	(78-114)	56.2%	(18)	04/13/10 13:18	R2, RL4		

TestAmerica Portland

Brian L. Cone

Brian Cone, Industrial Services Manager

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Republic Services-South Metro	Project Name: Stormwater Discharge	Report Created:
2001 Washington St	Project Number: [none]	04/13/10 16:27
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10D0022 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10D0022-BLK1)													Extracted: 04/01/10 11:31	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	04/07/10 08:29	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (10D0022-BS1)													Extracted: 04/01/10 11:31	
Copper	EPA 200.8	0.0858	---	0.00200	mg/l	1x	--	0.100	85.8%	(85-115)	--	--	04/07/10 08:37	
Lead	"	0.0861	---	0.00100	"	"	--	"	86.1%	"	--	--	"	
Zinc	"	0.0858	---	0.0100	"	"	--	"	85.8%	"	--	--	"	
Duplicate (10D0022-DUP1)													QC Source: PTC0924-01 Extracted: 04/01/10 11:31	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	ND	--	--	--	3.24%	(20)	04/07/10 10:03	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	
Zinc	"	0.0345	---	0.0100	"	"	0.0338	--	--	--	2.05%	"	"	
Matrix Spike (10D0022-MS1)													QC Source: PTC0924-01 Extracted: 04/01/10 11:31	
Copper	EPA 200.8	0.0851	---	0.00200	mg/l	1x	0.000910	0.100	84.2%	(75-125)	--	--	04/07/10 10:11	
Lead	"	0.0871	---	0.00100	"	"	ND	"	87.1%	"	--	--	"	
Zinc	"	0.119	---	0.0100	"	"	0.0338	"	85.2%	(70-130)	--	--	"	
Matrix Spike (10D0022-MS2)													QC Source: PTC0930-01 Extracted: 04/01/10 11:31	
Copper	EPA 200.8	0.0906	---	0.00200	mg/l	1x	0.00650	0.100	84.1%	(75-125)	--	--	04/07/10 10:58	
Lead	"	0.102	---	0.00100	"	"	0.0128	"	89.1%	"	--	--	"	
Zinc	"	0.151	---	0.0100	"	"	0.0654	"	85.7%	(70-130)	--	--	"	

TestAmerica Portland

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Brian L Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: [none] Project Manager: Kelly Herrod	Report Created: 04/13/10 16:27
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Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results
 TestAmerica Portland

QC Batch: 10D0065 Water Preparation Method: Wet Chem

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10D0065-BLK1)													Extracted: 04/02/10 10:23			
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	04/02/10 12:40			
LCS (10D0065-BS1)													Extracted: 04/02/10 10:23			
Total Suspended Solids	SM 2540D	60.0	---	10.0	mg/l	1x	--	60.0	100%	(80-120)	--	--	04/02/10 12:40			
Duplicate (10D0065-DUP1)													QC Source: PTC0907-02		Extracted: 04/02/10 10:23	
Total Suspended Solids	SM 2540D	10.0	---	10.0	mg/l	1x	10.0	--	--	--	0.00% (20)	--	04/02/10 12:40			

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Stormwater Discharge Project Number: [none] Project Manager: Kelly Herrod	Report Created: 04/13/10 16:27
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Notes and Definitions

Report Specific Notes:

- M7 - The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- R2 - The RPD exceeded the acceptance limit.
- RL4 - Reporting limit raised due to insufficient sample volume.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

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Brian Cone, Industrial Services Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

PTC0930

TURN AROUND REQUEST: 10 DAY

Client Name/Account #: Repubic Services Metro South

Address: 2001 Washington St

City/State/Zip: Oregon City, OR 97045

Project Manager: Kelly Herrod

Telephone Number: 503-722-4656 Fax No.: _____

Sampler Name: (Print) Jeremy Morgan

Sampler Signature: _____

Report To: Kelly Herrod

Invoice To: _____

TA Quote #: _____

Project ID: Stormwater

Project #: _____

Tag ID: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative			Matrix			Analyze For:																							
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	250mL Poly Unpreserved	Stormwater			O&G	Cu,Pb,Zn	TSS	Sampling-Grab	FT-PH #1: 7.14	FT-PH Time #1: 1405	FT-PH #2: 7.06	FT-PH Time #2: 1355	FT-PH #3: 6.97	FT-PH Time #3: 1410	FT-PH #4: 7.31	FT-PH Time #4: 1420	FT-PH #5: 7.26	FT-PH Time #5: 1425	FT-PH #6: 7.28	FT-PH Time #6: 1435								
Outfall #1	3-29	1400	5	X		X	X	X	X			X	X	X	X																				
Outfall #2	3-29	1350	5	X		X	X	X	X			X	X	X			X																		
Outfall #3	3-29	1405	5	X		X	X	X	X			X	X	X				X																	
Outfall #4	3-29	1415	5	X		X	X	X	X			X	X	X					X																
Outfall #5	3-29	1420	5	X		X	X	X	X			X	X	X												X									
Outfall #6	3-29	1430	5	X		X	X	X	X			X	X	X																					

Special Instructions: _____ Laboratory Comments: _____
 Temperature Upon Receipt: 2.2
 4.0

Received by TestAmerica:	Date	Time
<u>Jeremy Morgan</u>	3-29-10	1430
IN LAB	Date	Time
	3/30/10	0700

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTC0930 Date/Time Received: 3/30/10 0700
 Client Name and Project: Republic Service

Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:
 Cooler #(s): 1
 Temperatures: 2.2 4.0 _____
 Digi #1 Digi #2 IR Gun
 (Plastic Glass)

Temperature out of Range:
 _____ Not enough or No Ice
 _____ Ice Melted
 _____ W/in 4 Hrs of collection
 _____ Other: _____

Initials: AM

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. If ESI client, were temp blanks received? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. Chain of Custody present? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. Bottles received intact? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. Sample is not multiphasic? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. Proper Container and preservatives used? If no, document on NOD. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. pH of all samples checked and meet requirements? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. HF Dilution required? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. Did chain of custody agree with samples received? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 12. Is the "Sampled by" section of the COC completed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. Were VOA/Oil Syringe samples without headspace? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. Were VOA vials preserved? <input type="checkbox"/> HCl <input type="checkbox"/> Sodium Thiosulfate <input type="checkbox"/> Ascorbic Acid |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. Did samples require preservation with sodium thiosulfate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. If yes to #15, was the residual chlorine test negative? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 19. Are analyses with short holding times received in hold? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 20. Was Standard Turn Around (TAT) requested? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM. |

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTC0930

Login Checks:

Initials: jm

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 25. Were special log in instructions read and followed? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 26. Were tests logged checked against the COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 27. Were rush notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 28. Were short hold notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 29. Were subcontract COCs printed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 30. Was HF dilution logged? |

Labeling and Storage Checks:

Initials: jm

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 31. Were the subcontracted samples/containers put in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 32. Were sample bottles and COC double checked for dissolved/filtered metals? |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 33. Did the sample ID, Date, and Time from label match what was logged? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Were HF stickers affixed to each container, and containers stored in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Was an NOD for created for noted discrepancies and placed in folder? |

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampling Documentation Form

Client: Republic Services Metro South
Site: Oregon City / Outfalls 001-006
Project: Storm water

Sampler: Jeremy Morgan
Date: 3-29-10
Time: 1340

Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment: ISCO: _____ Other: Dipper
001 Grab Time: 1400
002 Grab Time: 1350
003 Grab Time: 1405
004 Grab Time: 1415
005 Grab Time: 1420
006 Grab Time: 1430

Field Data:

PH Meter: Thermo Scientific Orion 3 Star
001 PH: 7.14 Time Taken: 1405
002 PH: 7.06 Time Taken: 1355
003 PH: 6.97 Time Taken: 1410
004 PH: 7.31 Time Taken: 1420
005 PH: 7.26 Time Taken: 1425
006 PH: 7.22 Time Taken: 1435
PH Calibration-7.00 buffer reading: 7.00
Slope: 103.3
PH Buffer 4: 9110061
PH Buffer 7: 9110062
PH Buffer 10: 9110063

Field Conditions:

Weather: Sunny Partly cloudy Cloudy Snowing
Rainfall: Heavy Continuous Intermittent Light None

Sample Characteristics:

Color: _____ Odor: _____ TSS: 425
Sediment: _____ Foam: _____

Observations and Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PTK0280
TestAmerica Sample Delivery Group: PTK0280
Client Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736
Client Project Description: Stormwater Discharge

For:
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045

Attn: Kelly Herrod

Brian L Cone

Authorized for release by:
11/22/2010 11:41 AM

Brian Cone
Industrial Services Manager
brian.cone@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

**Ask
The
Expert**

Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PTK0280-01	Outfall #1	Water	11/06/10 20:30	11/08/10 08:55
PTK0280-02	Outfall #4	Water	11/06/10 20:45	11/08/10 08:55
PTK0280-03	Outfall #5	Water	11/06/10 20:50	11/08/10 08:55
PTK0280-04	Outfall #7	Water	11/06/10 20:40	11/08/10 08:55

Qualifier Definition/Glossary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280
SDG: PTK0280

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

01/22/2010 10:58:11 AM

Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280
 SDG: PTK0280

Client Sample ID: Outfall #1

Lab Sample ID: PTK0280-01

Date Collected: 11/06/10 20:30

Matrix: Water

Date Received: 11/08/10 08:55

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00970		0.00200		mg/l		11/11/10 09:41	11/13/10 17:41	1
Lead	0.0281		0.00100		mg/l		11/11/10 09:41	11/13/10 17:41	1
Zinc	0.115		0.0100		mg/l		11/11/10 09:41	11/13/10 17:41	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	59.0		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	1

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		11/16/10 16:24	11/18/10 13:35	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58				pH Units		11/06/10 20:35	11/06/10 20:40	1

Client Sample ID: Outfall #4

Lab Sample ID: PTK0280-02

Date Collected: 11/06/10 20:45

Matrix: Water

Date Received: 11/08/10 08:55

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0140		0.00200		mg/l		11/11/10 09:41	11/13/10 17:52	1
Lead	0.0215		0.00100		mg/l		11/11/10 09:41	11/13/10 17:52	1
Zinc	0.109		0.0100		mg/l		11/11/10 09:41	11/13/10 17:52	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	17.0		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	1

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		11/16/10 16:24	11/18/10 13:35	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88				pH Units		11/06/10 20:50	11/06/10 20:55	1

Client Sample ID: Outfall #5

Lab Sample ID: PTK0280-03

Date Collected: 11/06/10 20:50

Matrix: Water

Date Received: 11/08/10 08:55

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00249		0.00200		mg/l		11/11/10 09:41	11/13/10 17:57	1
Lead	0.0104		0.00100		mg/l		11/11/10 09:41	11/13/10 17:57	1
Zinc	0.0650		0.0100		mg/l		11/11/10 09:41	11/13/10 17:57	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	12.0		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	1

Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280
 SDG: PTK0280

Client Sample ID: Outfall #5

Lab Sample ID: PTK0280-0

Date Collected: 11/06/10 20:50
 Date Received: 11/08/10 08:55

Matrix: Water

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		11/16/10 16:24	11/18/10 13:35	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.60				pH Units		11/06/10 20:55	11/06/10 21:00	1

Client Sample ID: Outfall #7

Lab Sample ID: PTK0280-04

Date Collected: 11/06/10 20:40
 Date Received: 11/08/10 08:55

Matrix: Water

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00579		0.00200		mg/l		11/11/10 09:41	11/13/10 18:03	1
Lead	0.00847		0.00100		mg/l		11/11/10 09:41	11/13/10 18:03	1
Zinc	0.0502		0.0100		mg/l		11/11/10 09:41	11/13/10 18:03	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	24.0		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	1

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		11/16/10 16:24	11/18/10 13:35	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.22				pH Units		11/06/10 20:45	11/06/10 20:50	1

Quality Control Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280
 SDG: PTK0280

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Lab Sample ID: 10K0396-BLK1
 Matrix: Water
 Analysis Batch: 10K0396

Client Sample ID: 10K0396-BLK1
 Prep Type: total
 Prep Batch: 10K0396_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.00200		mg/l		11/11/10 09:41	11/13/10 17:18	1
Lead	ND		0.00100		mg/l		11/11/10 09:41	11/13/10 17:18	1
Zinc	ND		0.0100		mg/l		11/11/10 09:41	11/13/10 17:18	1

Lab Sample ID: 10K0396-BS1
 Matrix: Water
 Analysis Batch: 10K0396

Client Sample ID: 10K0396-BS1
 Prep Type: total
 Prep Batch: 10K0396_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Copper	0.100	0.0989		mg/l		98.9	85 - 115
Lead	0.100	0.101		mg/l		101	85 - 115
Zinc	0.100	0.0953		mg/l		95.3	85 - 115

Lab Sample ID: 10K0396-MS1
 Matrix: Water
 Analysis Batch: 10K0396

Client Sample ID: Outfall #1
 Prep Type: total
 Prep Batch: 10K0396_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Copper	0.00970		0.100	0.108		mg/l		98.6	75 - 125
Lead	0.0281		0.100	0.134		mg/l		106	75 - 125
Zinc	0.115		0.100	0.212		mg/l		96.1	70 - 130

Lab Sample ID: 10K0396-MS2
 Matrix: Water
 Analysis Batch: 10K0396

Client Sample ID: PTK0319-01
 Prep Type: total
 Prep Batch: 10K0396_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Copper	0.00834		0.100	0.106		mg/l		97.7	75 - 125
Lead	0.00193		0.100	0.104		mg/l		102	75 - 125
Zinc	0.211		0.100	0.301		mg/l		90.2	70 - 130

Lab Sample ID: 10K0396-DUP1
 Matrix: Water
 Analysis Batch: 10K0396

Client Sample ID: PTK0279-01
 Prep Type: total
 Prep Batch: 10K0396_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Copper	0.00504		0.00517		mg/l		2.57	20
Lead	0.00500		0.00492		mg/l		1.75	20
Zinc	0.0685		0.0698		mg/l		1.85	20

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Lab Sample ID: 10K0449-BLK1
 Matrix: Water
 Analysis Batch: 10K0449

Client Sample ID: 10K0449-BLK1
 Prep Type: total
 Prep Batch: 10K0449_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	1

Quality Control Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280
 SDG: PTK0280

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods (Continued)

Lab Sample ID: 10K0449-BS1
 Matrix: Water
 Analysis Batch: 10K0449

Client Sample ID: 10K0449-BS1
 Prep Type: total
 Prep Batch: 10K0449_P
 % Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Total Suspended Solids	60.0	63.0		mg/l		105	80 - 120

Lab Sample ID: 10K0449-DUP1
 Matrix: Water
 Analysis Batch: 10K0449

Client Sample ID: PTK0288-01
 Prep Type: total
 Prep Batch: 10K0449_P
 RPD

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Total Suspended Solids	ND		ND		mg/l			20

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Lab Sample ID: 10K0557-BLK1
 Matrix: Water
 Analysis Batch: 10K0557

Client Sample ID: 10K0557-BLK1
 Prep Type: total
 Prep Batch: 10K0557_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		11/16/10 16:24	11/17/10 17:20	1

Lab Sample ID: 10K0557-BS1
 Matrix: Water
 Analysis Batch: 10K0557

Client Sample ID: 10K0557-BS1
 Prep Type: total
 Prep Batch: 10K0557_P
 % Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Oil & Grease	40.0	38.5		mg/l		96.2	78 - 114

Lab Sample ID: 10K0557-MS1
 Matrix: Water
 Analysis Batch: 10K0557

Client Sample ID: PTK0283-02
 Prep Type: total
 Prep Batch: 10K0557_P
 % Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Oil & Grease	0.190		40.0	32.9		mg/l		81.7	78 - 114

Lab Sample ID: 10K0557-MSD1
 Matrix: Water
 Analysis Batch: 10K0557

Client Sample ID: PTK0283-02
 Prep Type: total
 Prep Batch: 10K0557_P
 % Rec.
 RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Oil & Grease	0.190		40.0	33.6		mg/l		83.6	78 - 114	2.29	18

Certification Summary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 1 of 2 PO#
1997736

TestAmerica Job ID: PTK0280
SDG: PTK0280

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	Alaska UST	10	UST-012	12/26/10
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

PTK0280

TURN AROUND REQUEST: 10 DAY

Client Name/Account #: Repubic Services Metro South

Address: 2001 Washington St

City/State/Zip: Oregon City, OR 97045

Project Manager: Kelly Herrod

Telephone Number: 503-722-4656 Fax No.: _____

Sampler Name: (Print) Jeremy Morgan

Sampler Signature: 

Report To: Kelly Herrod

Invoice To: _____

TA Quote #: _____

Project ID: Stormwater


Project #: _____

Tag ID: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative			Matrix			Analyze For:																							
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	250mL Poly Unpreserved				Stormwater	O&G	Cu, Pb, Zn	TSS	Sampling-Grab	FT-PH #1: 7.58	FT-PH Time #1: 08:35	FT-PH #4: 7.88	FT-PH Time #4: 08:35	FT-PH #5: 7.60	FT-PH Time #5: 08:35	FT-PH #7: 7.22	FT-PH Time #7: 08:35											
Outfall #1	11-6	0850	5	X		X	X	X				X	X	X	X	X																			
Outfall #4	11-6	0845	5	X		X	X	X				X	X	X			X																		
Outfall #5	11-6	0850	5	X		X	X	X				X	X	X				X																	
Outfall #7	11-6	0848	5	X		X	X	X				X	X	X					X																
	#1	2030																																	
	#4	2045																																	
	#5	2050																																	
	#7	2040																																	

Special Instructions: _____

Laboratory Comments:
Temperature Upon Receipt: 3.3

Received by TestAmerica: 	Date	Time
Jeremy Morgan	11-6-10	2040
IN LAB	Date	Time
	11-8-10	0855

4.0

Portland Sample Control Checklist

Work Order #: PTK0280 Date/Time Received: 11/8/10 0855
Client Name: Republic Services
Project Name: Stormwater
Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler (s): 1
Temperature (s): 3-3 4-0 _____
Digi #1 Digi #2 IR Gun
 Plastic Glass

Raytek
 Plastic Glass

Ice used: (circle one) GEL LOOSE BLUE OTHER: _____ Initials: dm

Temperature out of Range:

Not enough or No Ice
 Ice Melted
 W/in 4 Hrs of collection
 Ice Not Needed
 Other: _____

N/A Yes No

- 1. If ESI client, were temp blanks received? If no, document on NOD.
- 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
- 3. Chain of Custody present? Along with "received by" & "relinquished by" signatures with date & time? If no, document on NOD.
- 4. Bottles received intact? If no, document on NOD.
- 5. Sample is not multiphasic? If no, document on NOD.
- 6. Sampler name/signature documented on COC?
- 7. Proper Container and preservatives used? If no, document on NOD.
- 8. pH of all samples checked and meet requirements? If no, document on NOD.
- 9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
- 10. HF Dilution required?
- 11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
- 12. Did chain of custody agree with samples received? If no, document on NOD.
- 13. Were VOA samples received without headspace?
- 14. Did samples require preservation with sodium thiosulfate?
- 15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
- 16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
- 17. Are analyses with short holding times received in hold?
- 18. Were special log-in instructions read and followed?

Checklist Reviewed: _____ Log-in initials: dm Labeler initials: dm

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sampling Documentation Form

Client: Republic Services Metro South
Site: Oregon City / Outfalls 001,004,005,007
Project: Storm water

Sampler: Jeremy Morgan

Date: 11-6-10

Time: 082020

Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment: ISCO: _____ Other: _____

001 Grab Time: 2030
004 Grab Time: 2045
005 Grab Time: 2050
007 Grab Time: 2040

Field Data:

PH Meter: Thermo Scientific Orion 3 Star

001 PH: 7.58 Time Taken: 2035

004 PH: 7.88 Time Taken: 2050

005 PH: 7.60 Time Taken: 2055

007 PH: 7.22 Time Taken: 2045

PH Calibration-7.00 buffer reading: 7.06

Slope: 99.8

PH Buffer 4: 9110061

PH Buffer 7: 9110062

PH Buffer 10: 9110063

Field Conditions:

Weather: Sunny Partly cloudy Cloudy Snowing

Rainfall: Heavy Continuous Intermittent Light None

Sample Characteristics:

Color: _____ Odor: _____ TSS: _____

Sediment: _____ Foam: _____

Observations and Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PTK0851
TestAmerica Sample Delivery Group: PTK0851
Client Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736
Client Project Description: Stormwater Discharge

For:
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045

Attn: Kelly Herrod

Vanessa Frahs

Authorized for release by:
12/9/2010 12:02 PM
Vanessa Frahs
Project Manager
Vanessa.Frahs@testamericainc.com

Designee for
Brian Cone
Industrial Services Manager
brian.cone@testamericainc.com

LINKS

Review your project results through
Total Access

Have a Question?
Ask The Expert

Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



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Sample Summary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PTK0851-01	Outfall #1	Water	11/22/10 12:10	11/23/10 13:55
PTK0851-02	Outfall #4	Water	11/22/10 12:30	11/23/10 13:55
PTK0851-03	Outfall #5	Water	11/22/10 12:25	11/23/10 13:55
PTK0851-04	Outfall #7	Water	11/22/10 12:20	11/23/10 13:55

Qualifier Definition/Glossary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
SDG: PTK0851

Qualifiers

Fuels

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

Glossary

Glossary	Glossary Description
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis.

4

Detection Summary

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Client Sample ID: Outfall #1

Lab Sample ID: PTK0851-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0553		0.00200		mg/l	1		EPA 200.8	total
Lead	0.155		0.00100		mg/l	1		EPA 200.8	total
Zinc	0.537		0.0100		mg/l	1		EPA 200.8	total
Total Suspended Solids	372		40.0		mg/l	1		SM 2540D	total
pH	8.24				pH Units	1		SM 4500-H B	total

Client Sample ID: Outfall #4

Lab Sample ID: PTK0851-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0539		0.00200		mg/l	1		EPA 200.8	total
Lead	0.180		0.00100		mg/l	1		EPA 200.8	total
Zinc	0.560		0.0100		mg/l	1		EPA 200.8	total
Total Suspended Solids	209		22.2		mg/l	1		SM 2540D	total
pH	8.47				pH Units	1		SM 4500-H B	total

Client Sample ID: Outfall #5

Lab Sample ID: PTK0851-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0348		0.00200		mg/l	1		EPA 200.8	total
Lead	0.153		0.00100		mg/l	1		EPA 200.8	total
Zinc	0.350		0.0100		mg/l	1		EPA 200.8	total
Total Suspended Solids	147		14.3		mg/l	1		SM 2540D	total
pH	8.06				pH Units	1		SM 4500-H B	total

Client Sample ID: Outfall #7

Lab Sample ID: PTK0851-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.0406		0.00200		mg/l	1		EPA 200.8	total
Lead	0.0324		0.00100		mg/l	1		EPA 200.8	total
Zinc	0.359		0.0100		mg/l	1		EPA 200.8	total
Total Suspended Solids	163		10.0		mg/l	1		SM 2540D	total
Oil & Grease	5.48		4.81		mg/l	1		EPA 1664A	total
pH	7.91				pH Units	1		SM 4500-H B	total

5

Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Client Sample ID: Outfall #1
 Date Collected: 11/22/10 12:10
 Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-01
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0553		0.00200		mg/l		12/01/10 10:07	12/01/10 22:57	1
Lead	0.155		0.00100		mg/l		12/01/10 10:07	12/01/10 22:57	1
Zinc	0.537		0.0100		mg/l		12/01/10 10:07	12/01/10 22:57	1

Client Sample ID: Outfall #4
 Date Collected: 11/22/10 12:30
 Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-02
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0539		0.00200		mg/l		12/01/10 10:07	12/01/10 23:01	1
Lead	0.180		0.00100		mg/l		12/01/10 10:07	12/01/10 23:01	1
Zinc	0.560		0.0100		mg/l		12/01/10 10:07	12/01/10 23:01	1

Client Sample ID: Outfall #5
 Date Collected: 11/22/10 12:25
 Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-03
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0348		0.00200		mg/l		12/01/10 10:07	12/01/10 23:05	1
Lead	0.153		0.00100		mg/l		12/01/10 10:07	12/01/10 23:05	1
Zinc	0.350		0.0100		mg/l		12/01/10 10:07	12/01/10 23:05	1

Client Sample ID: Outfall #7
 Date Collected: 11/22/10 12:20
 Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-04
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0406		0.00200		mg/l		12/01/10 10:07	12/01/10 23:09	1
Lead	0.0324		0.00100		mg/l		12/01/10 10:07	12/01/10 23:09	1
Zinc	0.359		0.0100		mg/l		12/01/10 10:07	12/01/10 23:09	1

6

Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Client Sample ID: Outfall #1							Lab Sample ID: PTK0851-01			
Date Collected: 11/22/10 12:10							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Suspended Solids	372		40.0		mg/l		11/29/10 13:00	11/29/10 15:44	1	

Client Sample ID: Outfall #4							Lab Sample ID: PTK0851-02			
Date Collected: 11/22/10 12:30							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Suspended Solids	209		22.2		mg/l		11/29/10 13:00	11/29/10 15:44	1	

Client Sample ID: Outfall #5							Lab Sample ID: PTK0851-03			
Date Collected: 11/22/10 12:25							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Suspended Solids	147		14.3		mg/l		11/29/10 13:00	11/29/10 15:44	1	

Client Sample ID: Outfall #7							Lab Sample ID: PTK0851-04			
Date Collected: 11/22/10 12:20							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Suspended Solids	163		10.0		mg/l		11/29/10 13:00	11/29/10 15:44	1	

6

Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Client Sample ID: Outfall #1
Date Collected: 11/22/10 12:10
Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-01
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.76		mg/l	-	12/07/10 11:48	12/08/10 13:27	1

Client Sample ID: Outfall #4
Date Collected: 11/22/10 12:30
Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-02
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.95		mg/l	-	12/07/10 11:48	12/08/10 13:27	1

Client Sample ID: Outfall #5
Date Collected: 11/22/10 12:25
Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-03
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.95		mg/l	-	12/07/10 11:48	12/08/10 13:27	1

Client Sample ID: Outfall #7
Date Collected: 11/22/10 12:20
Date Received: 11/23/10 13:55

Lab Sample ID: PTK0851-04
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	5.48		4.81		mg/l	-	12/07/10 11:48	12/08/10 13:27	1

6

Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Client Sample ID: Outfall #1							Lab Sample ID: PTK0851-01			
Date Collected: 11/22/10 12:10							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
pH	8.24				pH Units		11/22/10 12:15	11/22/10 12:20	1	

Client Sample ID: Outfall #4							Lab Sample ID: PTK0851-02			
Date Collected: 11/22/10 12:30							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
pH	8.47				pH Units		11/22/10 12:35	11/22/10 12:40	1	

Client Sample ID: Outfall #5							Lab Sample ID: PTK0851-03			
Date Collected: 11/22/10 12:25							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
pH	8.06				pH Units		11/22/10 12:30	11/22/10 12:35	1	

Client Sample ID: Outfall #7							Lab Sample ID: PTK0851-04			
Date Collected: 11/22/10 12:20							Matrix: Water			
Date Received: 11/23/10 13:55										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
pH	7.91				pH Units		11/22/10 12:25	11/22/10 12:30	1	

6

Quality Control Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Lab Sample ID: 10L0010-BLK1
 Matrix: Water
 Analysis Batch: 10L0010

Client Sample ID: 10L0010-BLK1
 Prep Type: total
 Prep Batch: 10L0010_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.00200		mg/l		12/01/10 10:07	12/01/10 22:02	1
Lead	ND		0.00100		mg/l		12/01/10 10:07	12/01/10 22:02	1
Zinc	ND		0.0100		mg/l		12/01/10 10:07	12/01/10 22:02	1

Lab Sample ID: 10L0010-BS1
 Matrix: Water
 Analysis Batch: 10L0010

Client Sample ID: 10L0010-BS1
 Prep Type: total
 Prep Batch: 10L0010_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Copper	0.100	0.0933		mg/l		93.3	85 - 115
Lead	0.100	0.0936		mg/l		93.6	85 - 115
Zinc	0.100	0.0876		mg/l		87.6	85 - 115

Lab Sample ID: 10L0010-MS1
 Matrix: Water
 Analysis Batch: 10L0010

Client Sample ID: PTK0842-12
 Prep Type: total
 Prep Batch: 10L0010_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Copper	0.0167		0.100	0.101		mg/l		84.7	75 - 125
Lead	0.0123		0.100	0.0999		mg/l		87.6	75 - 125
Zinc	0.136		0.100	0.217		mg/l		80.8	70 - 130

Lab Sample ID: 10L0010-MS2
 Matrix: Water
 Analysis Batch: 10L0010

Client Sample ID: Outfall #7
 Prep Type: total
 Prep Batch: 10L0010_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Copper	0.0406		0.100	0.129		mg/l		88.2	75 - 125
Lead	0.0324		0.100	0.125		mg/l		92.2	75 - 125
Zinc	0.359		0.100	0.444		mg/l		84.4	70 - 130

Lab Sample ID: 10L0010-DUP1
 Matrix: Water
 Analysis Batch: 10L0010

Client Sample ID: PTK0842-06
 Prep Type: total
 Prep Batch: 10L0010_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Copper	0.00124		ND		mg/l		3.95	20
Lead	0.000530		ND		mg/l		3.85	20
Zinc	0.0155		0.0156		mg/l		0.96	20

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Lab Sample ID: 10K0857-BLK1
 Matrix: Water
 Analysis Batch: 10K0857

Client Sample ID: 10K0857-BLK1
 Prep Type: total
 Prep Batch: 10K0857_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		10.0		mg/l		11/29/10 13:00	11/29/10 15:44	1

Quality Control Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
 SDG: PTK0851

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods (Continued)

Lab Sample ID: 10K0857-BS1 Matrix: Water Analysis Batch: 10K0857						Client Sample ID: 10K0857-BS1 Prep Type: total Prep Batch: 10K0857_P				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits			
Total Suspended Solids	60.0	60.0		mg/l		100	80 - 120			

Lab Sample ID: 10K0857-DUP1 Matrix: Water Analysis Batch: 10K0857						Client Sample ID: PTK0835-01 Prep Type: total Prep Batch: 10K0857_P				
Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit		
Total Suspended Solids	13.0		14.0		mg/l		7.41	20		

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Lab Sample ID: 10L0199-BLK1 Matrix: Water Analysis Batch: 10L0199						Client Sample ID: 10L0199-BLK1 Prep Type: total Prep Batch: 10L0199_P				
Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil & Grease	ND		5.00		mg/l		12/07/10 11:48	12/08/10 13:27	1	

Lab Sample ID: 10L0199-BLK2 Matrix: Water Analysis Batch: 10L0199						Client Sample ID: 10L0199-BLK2 Prep Type: total Prep Batch: 10L0199_P				
Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil & Grease	ND		5.00		mg/l		12/07/10 11:48	12/08/10 13:27	1	

Lab Sample ID: 10L0199-BS1 Matrix: Water Analysis Batch: 10L0199						Client Sample ID: 10L0199-BS1 Prep Type: total Prep Batch: 10L0199_P				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits			
Oil & Grease	40.0	40.7		mg/l		102	78 - 114			

Lab Sample ID: 10L0199-MS1 Matrix: Water Analysis Batch: 10L0199						Client Sample ID: PTK0929-01 Prep Type: total Prep Batch: 10L0199_P				
Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limit	
Oil & Grease	0.777		40.0	14.5	M8	mg/l		34.2	78 - 114	

Lab Sample ID: 10L0199-MSD1 Matrix: Water Analysis Batch: 10L0199						Client Sample ID: PTK0929-01 Prep Type: total Prep Batch: 10L0199_P					
Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limit	RPD	Limit
Oil & Grease	0.777		40.0	12.2	M8	mg/l		28.5	78 - 114	17.1	18

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Certification Summary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

TestAmerica Job ID: PTK0851
SDG: PTK0851

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	Alaska UST	10	UST-012	12/26/10
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

PTK0851

TURN AROUND REQUEST: 10 DAY

Client Name/Account #: Repubic Services Metro South

Address: 2001 Washington St

City/State/Zip: Oregon City, OR 97045

Project Manager: Kelly Herrod

Telephone Number: 503-722-4656

Fax No.:

Sampler Name: (Print) Jeremy Morgan

Sampler Signature: 

Report To: Kelly Herrod

Invoice To:

TA Quote #:


Project ID: Stormwater

Project #:

Tag ID:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative			Matrix			Analyze For:																											
						1L Glass w/hydrochloric Acid	250mL Poly w/Nitric Acid	250mL Poly Unpreserved	Stormwater			O&G	Cu, Pb, Zn	TSS	Sampling-Grab	FT-PH #1:	FT-PH Time #1:	FT-PH #4:	FT-PH Time #4:	FT-PH #5:	FT-PH Time #5:	FT-PH #7:	FT-PH Time #7:																
Outfall #1	11-22	1210	5	X		X	X	X	X			X	X	X	X																								
Outfall #4	11-22	1230	5	X		X	X	X	X			X	X	X			X																						
Outfall #5	11-22	1225	5	X		X	X	X	X			X	X	X					X																				
Outfall #7	11-22	1220	5	X		X	X	X	X			X	X	X										X															

Special Instructions: _____ Laboratory Comments: _____
Temperature Upon Receipt: 1.8
2.1

Received by TestAmerica:	Date	Time
 Jeremy Morgan	<u>11-22</u>	<u>1250</u>
IN LAB	<u>11-23</u>	<u>1355</u>

Portland Sample Control Checklist

Work Order #: PTK0851 Date/Time Received: 11/23/10 1355
 Client Name: Republic Services Metro South
 Project Name: Stormwater
 Time Zone: EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler (s): 1
 Temperature (s): 1
 Digi #1 Digi #2 IR Gun Plastic Glass
 Raytek Plastic Glass

Temperature out of Range:

Not enough or No Ice
 Ice Melted
 W/in 4 Hrs of collection
 Ice Not Needed
 Other: _____

Ice used: (circle one)

GEL LOOSE BLUE OTHER: _____

Initials: CMK

N/A Yes No

- 1. If ESI client, were temp blanks received? If no, document on NOD.
- 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
- 3. Chain of Custody present? Along with "received by" & "relinquished by" signatures with date & time? If no, document on NOD.
- 4. Bottles received intact? If no, document on NOD.
- 5. Sample is not multiphasic? If no, document on NOD.
- 6. Sampler name/signature documented on COC?
- 7. Proper Container and preservatives used? If no, document on NOD.
- 8. pH of all samples checked and meet requirements? If no, document on NOD.
- 9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
- 10. HF Dilution required?
- 11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
- 12. Did chain of custody agree with samples received? If no, document on NOD.
- 13. Were VOA samples received without headspace?
- 14. Did samples require preservation with sodium thiosulfate?
- 15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
- 16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
- 17. Are analyses with short holding times received in hold?
- 18. Were special log-in instructions read and followed?

Checklist Reviewed: Log-in initials: CMK Labeler initials: CMK

PTK0851

Sampling Documentation Form

Client: Republic Services Metro South Site: Oregon City / Outfalls 001,004,005,007 Project: Storm water	Sampler: Jeremy Morgan Date: <u>11-22-10</u> Time: <u>1205</u>
--	---

Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment: ISCO: _____ Other: Dipper

001 Grab Time: 1216
004 Grab Time: 1230
005 Grab Time: 1225
007 Grab Time: 1220

Field Data:
PH Meter: Thermo Scientific Orion 3 Star
001 PH: 8.24 Time Taken: 1215
004 PH: 8.47 Time Taken: 1235
005 PH: 8.06 Time Taken: 1230
007 PH: 7.91 Time Taken: 1225
PH Calibration-7.00 buffer reading: 6.97
Slope: 26.9
PH Buffer 4: 9110061
PH Buffer 7: 9110062
PH Buffer 10: 9110063

Field Conditions:
Weather: Sunny Partly cloudy Cloudy Snowing
Rainfall: Heavy Continuous Intermittent Light None

Sample Characteristics:
Color: _____ Odor: _____ TSS: yes
Sediment: _____ Foam: _____

Observations and Comments:

9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503) 906-9200

TestAmerica Job ID: PTL0710
TestAmerica Sample Delivery Group: PTL0710
Client Project/Site: Q4 Storm Water Sampling 2 of 2
Client Project Description: Stormwater Discharge

For:
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045

Attn: Kelly Herrod

Brian L Cone

Authorized for release by:
1/6/2011 5:13 PM

Brian Cone
Industrial Services Manager
brian.cone@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

? Ask
The
Expert

Visit us at:
www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PTL0710-01	Outfall #1	Water	12/18/10 22:10	12/20/10 11:00
PTL0710-02	Outfall #4	Water	12/18/10 22:25	12/20/10 11:00
PTL0710-03	Outfall #5	Water	12/18/10 22:30	12/20/10 11:00
PTL0710-04	Outfall #7	Water	12/18/10 22:15	12/20/10 11:00

3

Qualifier Definition/Glossary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710
SDG: PTL0710

Qualifiers

Fuels

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.



Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710
 SDG: PTL0710

Client Sample ID: Outfall #1

Lab Sample ID: PTL0710-01

Date Collected: 12/18/10 22:10

Matrix: Water

Date Received: 12/20/10 11:00

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		01/04/11 09:15	01/05/11 11:11	1

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0235		0.00200		mg/l		12/21/10 08:49	12/22/10 00:54	1
Lead	0.0741		0.00100		mg/l		12/21/10 08:49	12/22/10 00:54	1
Zinc	0.290		0.0100		mg/l		12/21/10 08:49	12/22/10 00:54	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	165		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.64				pH Units		12/18/10 22:15	12/18/10 22:20	1

Client Sample ID: Outfall #4

Lab Sample ID: PTL0710-02

Date Collected: 12/18/10 22:25

Matrix: Water

Date Received: 12/20/10 11:00

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		01/04/11 09:15	01/05/11 11:11	1

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0138		0.00200		mg/l		12/21/10 08:49	12/22/10 01:02	1
Lead	0.0118		0.00100		mg/l		12/21/10 08:49	12/22/10 01:02	1
Zinc	0.0935		0.0100		mg/l		12/21/10 08:49	12/22/10 01:02	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	125		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.97				pH Units		12/18/10 22:30	12/18/10 22:35	1

Client Sample ID: Outfall #5

Lab Sample ID: PTL0710-03

Date Collected: 12/18/10 22:30

Matrix: Water

Date Received: 12/20/10 11:00

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		01/04/11 09:15	01/05/11 11:11	1

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0107		0.00200		mg/l		12/21/10 08:49	12/22/10 01:06	1
Lead	0.0498		0.00100		mg/l		12/21/10 08:49	12/22/10 01:06	1
Zinc	0.173		0.0100		mg/l		12/21/10 08:49	12/22/10 01:06	1

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Analytical Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710
 SDG: PTL0710

Client Sample ID: Outfall #5

Lab Sample ID: PTL0710-03

Date Collected: 12/18/10 22:30

Matrix: Water

Date Received: 12/20/10 11:00

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	35.0		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.39				pH Units		12/18/10 22:35	12/18/10 22:40	1

Client Sample ID: Outfall #7

Lab Sample ID: PTL0710-04

Date Collected: 12/18/10 22:15

Matrix: Water

Date Received: 12/20/10 11:00

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		01/04/11 09:15	01/05/11 11:11	1

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00252		0.00200		mg/l		12/21/10 08:49	12/22/10 01:10	1
Lead	0.00120		0.00100		mg/l		12/21/10 08:49	12/22/10 01:10	1
Zinc	0.0283		0.0100		mg/l		12/21/10 08:49	12/22/10 01:10	1

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	1

Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.74				pH Units		12/18/10 22:20	12/18/10 22:25	1

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Quality Control Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710
 SDG: PTL0710

Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Lab Sample ID: 11A0021-BLK1
 Matrix: Water
 Analysis Batch: 11A0021

Client Sample ID: 11A0021-BLK1
 Prep Type: total
 Prep Batch: 11A0021_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.00		mg/l		01/04/11 08:30	01/05/11 11:11	1

Lab Sample ID: 11A0021-BS1
 Matrix: Water
 Analysis Batch: 11A0021

Client Sample ID: 11A0021-BS1
 Prep Type: total
 Prep Batch: 11A0021_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Oil & Grease	40.1	32.7		mg/l		81.5	78 - 114

Lab Sample ID: 11A0021-MS1
 Matrix: Water
 Analysis Batch: 11A0021

Client Sample ID: PTL1060-01
 Prep Type: total
 Prep Batch: 11A0021_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Oil & Grease	0.900		40.1	78.5	M7	mg/l		194	78 - 114

Lab Sample ID: 11A0021-MSD1
 Matrix: Water
 Analysis Batch: 11A0021

Client Sample ID: PTL1060-01
 Prep Type: total
 Prep Batch: 11A0021_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Oil & Grease	0.900		40.1	33.9	R2	mg/l		82.3	78 - 114	79.4	18

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Lab Sample ID: 10L0616-BLK1
 Matrix: Water
 Analysis Batch: 10L0616

Client Sample ID: 10L0616-BLK1
 Prep Type: total
 Prep Batch: 10L0616_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.00200		mg/l		12/21/10 08:49	12/21/10 23:50	1
Lead	ND		0.00100		mg/l		12/21/10 08:49	12/21/10 23:50	1
Zinc	ND		0.0100		mg/l		12/21/10 08:49	12/21/10 23:50	1

Lab Sample ID: 10L0616-BS1
 Matrix: Water
 Analysis Batch: 10L0616

Client Sample ID: 10L0616-BS1
 Prep Type: total
 Prep Batch: 10L0616_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Copper	0.100	0.0972		mg/l		97.2	85 - 115
Lead	0.100	0.103		mg/l		103	85 - 115
Zinc	0.100	0.0956		mg/l		95.6	85 - 115

Lab Sample ID: 10L0616-MS1
 Matrix: Water
 Analysis Batch: 10L0616

Client Sample ID: PTL0672-02
 Prep Type: total
 Prep Batch: 10L0616_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	Limits
Copper	0.00617		0.100	0.108		mg/l		101	75 - 125
Lead	0.000860		0.100	0.102		mg/l		101	75 - 125
Zinc	0.0143		0.100	0.114		mg/l		100	70 - 130

TestAmerica Portland

Quality Control Data

Client: Republic Services-South Metro
 Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710
 SDG: PTL0710

Method: EPA 200.8 - Total Metals per EPA 200 Series Methods (Continued)

Lab Sample ID: 10L0616-MS2
 Matrix: Water
 Analysis Batch: 10L0616

Client Sample ID: Outfall #1
 Prep Type: total
 Prep Batch: 10L0616_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Copper	0.0235		0.100	0.121		mg/l		97.9		75 - 125
Lead	0.0741		0.100	0.169		mg/l		95.3		75 - 125
Zinc	0.290		0.100	0.380		mg/l		90.3		70 - 130

Lab Sample ID: 10L0616-DUP1
 Matrix: Water
 Analysis Batch: 10L0616

Client Sample ID: PTL0668-02
 Prep Type: total
 Prep Batch: 10L0616_P

Analyte	Sample	Sample	Duplicate		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	0.00164		ND		mg/l		7.06	20
Lead	0.000140		ND		mg/l			20
Zinc	ND		ND		mg/l			20

Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Lab Sample ID: 10L0708-BLK1
 Matrix: Water
 Analysis Batch: 10L0708

Client Sample ID: 10L0708-BLK1
 Prep Type: total
 Prep Batch: 10L0708_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	ND		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	1

Lab Sample ID: 10L0708-BS1
 Matrix: Water
 Analysis Batch: 10L0708

Client Sample ID: 10L0708-BS1
 Prep Type: total
 Prep Batch: 10L0708_P

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	Limits
Total Suspended Solids	60.0	60.0		mg/l		100		80 - 120

Lab Sample ID: 10L0708-DUP1
 Matrix: Water
 Analysis Batch: 10L0708

Client Sample ID: PTL0640-01
 Prep Type: total
 Prep Batch: 10L0708_P

Analyte	Sample	Sample	Duplicate		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Suspended Solids	ND		ND		mg/l			20

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Certification Summary

Client: Republic Services-South Metro
Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710
SDG: PTL0710

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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PTL0710

TURN AROUND REQUEST: 10 DAY

Client Name/Account #: Republic Services Metro South

Address: 2001 Washington St

City/State/Zip: Oregon City, OR 97045

Project Manager: Kelly Herrod

Telephone Number: 503-722-4656

Fax No.:

Sampler Name: (Print) Jeremy Morgan

Sampler Signature: 

Report To: Kelly Herrod

Invoice To:

TA Quote #:

Project ID: Stormwater


Project #:

Tag ID:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative			Matrix			Analyze For:													
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	250mL Poly Unpreserved	Stormwater	O&G	Cu,Pb,Zn	TSS	Sampling-Grab	FT-PH #1: 7.64	FT-PH Time #1: 1015	FT-PH #4: 6.97	FT-PH Time #4: 1030	FT-PH #5: 7.39	FT-PH Time #5: 1035	FT-PH #7: 7.74	FT-PH Time #7: 1020				
Outfall #1	2210	12-18	1010	5	X	X	X	X	X	X	X	X	X	X											
Outfall #4	2225	12-18	1025	5	X	X	X	X	X	X	X	X	X	X											
Outfall #5	2230	12-18	1030	5	X	X	X	X	X	X	X	X	X	X				X							
Outfall #7	2015	12-18	1015	5	X	X	X	X	X	X	X	X	X	X								X			

Special Instructions:

Laboratory Comments: 4.5°C
Temperature Upon Receipt: 41.6°C

Received by TestAmerica:	Date	Time
 Jeremy Morgan	12-18-18	1030
IN LAB	Date	Time
	12-20-18	1101

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Portland Sample Control Checklist

Work Order #: PTL0710 Date/Time Received: 12-20-10 11:00

Client Name: REPUBLIC SERVICES

Project Name: STORMWATER

Time Zone: EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler (s): 1
Temperature (s): 4.5 1.6
Digi #1 Digi #2 IR Gun (Plastic Glass)
Raytek (Plastic Glass)

Temperature out of Range:

Not enough or No Ice
 Ice Melted
 W/in 4 Hrs of collection
 Ice Not Needed
 Other: _____

Ice used: (circle one) GEL LOOSE BLUE OTHER: _____ Initials: [Signature]

N/A Yes No

- 1. If ESI client, were temp blanks received? If no, document on NOD.
- 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
- 3. Chain of Custody present? Along with "received by" & "relinquished by" signatures with date & time? If no, document on NOD.
- 4. Bottles received intact? If no, document on NOD.
- 5. Sample is not multiphasic? If no, document on NOD.
- 6. Sampler name/signature documented on COC?
- 7. Proper Container and preservatives used? If no, document on NOD.
- 8. pH of all samples checked and meet requirements? If no, document on NOD.
- 9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
- 10. HF Dilution required?
- 11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
- 12. Did chain of custody agree with samples received? If no, document on NOD.
- 13. Were VOA samples received without headspace?
- 14. Did samples require preservation with sodium thiosulfate?
- 15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
- 16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
- 17. Are analyses with short holding times received in hold?
- 18. Were special log-in instructions read and followed?

Checklist Reviewed: _____ Log-in initials: SS Labeler initials: SS

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PTL0710

Sampling Documentation Form

Client: Republic Services Metro South	Sampler: Jeremy Morgan
Site: Oregon City / Outfalls 001,004,005,007	Date: <u>12-18-10</u>
Project: Storm water	Time: <u>1038</u>

Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment: ISCO: _____ Other: Dipper

001 Grab Time: 1010 2210

004 Grab Time: 1025 2225

005 Grab Time: 1030 2230

007 Grab Time: 1035 2215

Field Data:

PH Meter: Thermo Scientific Orion 3 Star

001 PH: 7.64 Time Taken: 1015 2215

004 PH: 6.97 Time Taken: 1030 2230

005 PH: 7.39 Time Taken: 1035 2235

007 PH: 7.74 Time Taken: 1020 2220

PH Calibration-7.00 buffer reading: 7.15

Slope: 99.4

PH Buffer 4: 9110061

PH Buffer 7: 9110062

PH Buffer 10: 9110063

Field Conditions:

Weather: Sunny Partly cloudy Cloudy Snowing

Rainfall: Heavy Continuous Intermittent Light None

Sample Characteristics:

Color: _____ Odor: _____ TSS: yes

Sediment: _____ Foam: _____

Observations and Comments:

Appendix D

Q1 – Waste Water Report

Q2 – Waste Water Report

Q3 – Waste Water Report

Q4 – Waste Water Report

January 28, 2010

Kelly Herrod
Republic Services-Metro S.Trnsfr Stn
2001 Washington St
Oregon City, OR 97045

RE: Industrial Wastewater Discharge Permit

Enclosed are the results of analyses for samples received by the laboratory on 01/14/10 15:50.
The following list is a summary of the Work Orders contained in this report, generated on 01/28/10 13:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTA0357	Industrial Wastewater Dischar	Q4 Sewer Discharge Sampling

TestAmerica Portland



Estella Rieben For Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
--	---	-----------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTA0357-01	Water	01/14/10 14:15	01/14/10 15:50
Point of Compliance-Comp	PTA0357-02	Water	01/14/10 14:20	01/14/10 15:50

TestAmerica Portland



Estella Rieben For Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-Metro S.Trnsfr Stn	Project Name: Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number: Q4 Sewer Discharge Sampling	Report Created: 01/28/10 13:56
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Oil and Grease Analysis per EPA Method 1664
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-01 (Point of Compliance-Grab)										
										Water
										Sampled: 01/14/10 14:15
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10A0470	01/20/10 16:11	01/21/10 08:06	ID6
Oil & Grease (non-polar)	"	ND	---	5.00	"	"	"	"	01/21/10 10:16	
Oil & Grease (polar)	[CALC]	ND	---	5.00	"	"	[CALC]	"	"	

TestAmerica Portland

Estella K Rieben

Estella Rieben For Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
--	---	-----------------------------------

Total Metals per EPA 200 Series Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-02	(Point of Compliance-Comp)									
		Water						Sampled: 01/14/10 14:20		
Copper	EPA 200.8	0.0182	----	0.00200	mg/l	1x	10A0604	01/25/10 10:55	01/25/10 22:34	
Lead	"	0.00705	----	0.00100	"	"	"	"	01/26/10 18:06	
Zinc	"	0.125	----	0.0100	"	"	"	"	01/25/10 17:46	

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Estella K Rieben

Estella Rieben For Brian Cone, Industrial Services Manager


Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
--	---	-----------------------------------

Total Mercury per EPA Method 245.1
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-02 (Point of Compliance-Comp)				Water				Sampled: 01/14/10 14:20		

Mercury	EPA 245.1	ND	-----	0.000200	mg/l	1x	10A0353	01/15/10 10:36	01/15/10 14:55	
---------	-----------	----	-------	----------	------	----	---------	----------------	----------------	--

TestAmerica Portland



Estella Rieben For Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
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Conventional Chemistry Parameters per Standard Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-02 (Point of Compliance-Comp)				Water			Sampled: 01/14/10 14:20			
Biochemical Oxygen Demand	SM 5210B	207	----	4.00	mg/l	1x	10A0348	01/15/10 09:03	01/20/10 11:30	
Total Suspended Solids	SM 2540D	70.0	----	10.0	"	"	10A0466	01/20/10 10:50	01/20/10 17:31	

TestAmerica Portland

Estella K Rieben

Estella Rieben For Brian Cone, Industrial Services Manager

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Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
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Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-01 (Point of Compliance-Grab)				Water				Sampled: 01/14/10 14:15		
pH	EPA 150.1	6.42	----		pH Units	1x	10A0396	01/14/10 14:20	01/14/10 14:25	

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Estella K Rieben

Estella Rieben For Brian Cone, Industrial Services Manager

Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
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Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10A0470 Water Preparation Method: O&G prep CE

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10A0470-BLK1)													Extracted: 01/20/10 13:00	
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	01/21/10 08:06	
Blank (10A0470-BLK2)													Extracted: 01/20/10 13:00	
Oil & Grease (non-polar)	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	01/21/10 10:16	
LCS (10A0470-BS1)													Extracted: 01/20/10 13:00	
Oil & Grease	EPA 1664	35.9	---		mg/l	1x	--	40.0	89.8%	(78-114)	--	--	01/21/10 08:06	
LCS (10A0470-BS2)													Extracted: 01/20/10 13:00	
Oil & Grease (non-polar)	EPA 1664	16.8	---		mg/l	1x	--	20.0	84.0%	(64-132)	--	--	01/21/10 10:16	
Matrix Spike (10A0470-MS1)													QC Source: PTA0306-01 Extracted: 01/20/10 13:00	
Oil & Grease	EPA 1664	41.1	---		mg/l	1x	1.30	40.0	99.5%	(78-114)	--	--	01/21/10 08:06	
Matrix Spike (10A0470-MS2)													QC Source: PTA0306-01 Extracted: 01/20/10 13:00	
Oil & Grease (non-polar)	EPA 1664	17.7	---		mg/l	1x	2.30	20.0	77.0%	(64-132)	--	--	01/21/10 10:16	
Matrix Spike Dup (10A0470-MSD1)													QC Source: PTA0306-01 Extracted: 01/20/10 13:00	
Oil & Grease	EPA 1664	41.0	---		mg/l	1x	1.30	40.0	99.2%	(78-114)	0.244% (18)		01/21/10 08:06	
Matrix Spike Dup (10A0470-MSD2)													QC Source: PTA0306-01 Extracted: 01/20/10 13:00	
Oil & Grease (non-polar)	EPA 1664	18.6	---		mg/l	1x	2.30	20.0	81.5%	(64-132)	4.96% (34)		01/21/10 10:16	

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Estella K. Rieben

Estella Rieben For Brian Cone, Industrial Services Manager

Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
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Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10A0604 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10A0604-BLK1)													Extracted: 01/25/10 10:55			
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	01/25/10 21:24			
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	01/25/10 16:33			
LCS (10A0604-BS1)													Extracted: 01/25/10 10:55			
Copper	EPA 200.8	0.0938	---	0.00200	mg/l	1x	--	0.100	93.8%	(85-115)	--	--	01/25/10 21:28			
Lead	"	0.100	---	0.00100	"	"	--	"	100%	"	--	--	"			
Zinc	"	0.0872	---	0.0100	"	"	--	"	87.2%	"	--	--	01/25/10 16:36			
Duplicate (10A0604-DUP1)													QC Source: PTA0350-02		Extracted: 01/25/10 10:55	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	ND	--	--	--	NR	(20)	01/25/10 22:05			
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"			
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	NR	"	01/25/10 17:18			
Matrix Spike (10A0604-MS1)													QC Source: PTA0350-02		Extracted: 01/25/10 10:55	
Copper	EPA 200.8	0.0950	---	0.00200	mg/l	1x	ND	0.100	95.0%	(75-125)	--	--	01/25/10 22:09			
Lead	"	0.0985	---	0.00100	"	"	ND	"	98.5%	"	--	--	"			
Zinc	"	0.100	---	0.0100	"	"	ND	"	100%	(70-130)	--	--	01/25/10 17:21			
Matrix Spike (10A0604-MS2)													QC Source: PTA0357-02		Extracted: 01/25/10 10:55	
Copper	EPA 200.8	0.112	---	0.00200	mg/l	1x	0.0182	0.100	94.1%	(75-125)	--	--	01/25/10 22:38			
Lead	"	0.0992	---	0.00100	"	"	0.00705	"	92.2%	"	--	--	01/26/10 18:10			
Zinc	"	0.219	---	0.0100	"	"	0.125	"	93.8%	(70-130)	--	--	01/25/10 17:49			

TestAmerica Portland

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Estella K Rieben

Estella Rieben For Brian Cone, Industrial Services Manager

Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
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Total Mercury per EPA Method 245.1 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10A0353 Water Preparation Method: EPA 245.1

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10A0353-BLK1)													Extracted: 01/15/10 10:36			
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	01/15/10 14:31			
LCS (10A0353-BS1)													Extracted: 01/15/10 10:36			
Mercury	EPA 245.1	0.00484	---	0.000200	mg/l	1x	--	0.00500	96.8%	(85-115)	--	--	01/15/10 14:34			
LCS Dup (10A0353-BSD1)													Extracted: 01/15/10 10:36			
Mercury	EPA 245.1	0.00459	---	0.000200	mg/l	1x	--	0.00500	91.8%	(85-115)	5.33%	(20)	01/15/10 14:37			
Duplicate (10A0353-DUP1)													QC Source: PTA0249-01		Extracted: 01/15/10 10:36	
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	01/15/10 14:39			
Matrix Spike (10A0353-MS1)													QC Source: PTA0249-01		Extracted: 01/15/10 10:36	
Mercury	EPA 245.1	0.00443	---	0.000200	mg/l	1x	ND	0.00500	88.5%	(75-125)	--	--	01/15/10 14:42			
Matrix Spike Dup (10A0353-MSD1)													QC Source: PTA0249-01		Extracted: 01/15/10 10:36	
Mercury	EPA 245.1	0.00456	---	0.000200	mg/l	1x	ND	0.00500	91.1%	(75-125)	2.89%	(20)	01/15/10 14:45			

TestAmerica Portland

Estella K. Rieben

Estella Rieben For Brian Cone, Industrial Services Manager

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Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 01/28/10 13:56
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Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10A0348 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10A0348-BLK1)										Extracted: 01/15/10 09:03				
Biochemical Oxygen Demand	SM 5210B	ND	---	4.00	mg/l	1x	--	--	--	--	--	--	01/20/10 11:30	
LCS (10A0348-BS1)										Extracted: 01/15/10 09:03				
Biochemical Oxygen Demand	SM 5210B	207	---	4.00	mg/l	1x	--	198	105%	(85-115)	--	--	01/20/10 11:30	
Duplicate (10A0348-DUP1)										QC Source: PTA0353-01		Extracted: 01/15/10 09:03		
Biochemical Oxygen Demand	SM 5210B	456	---	4.00	mg/l	1x	426	--	--	--	6.81%	(35)	01/20/10 11:30	

QC Batch: 10A0466 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10A0466-BLK1)										Extracted: 01/20/10 10:50				
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	01/20/10 17:31	
LCS (10A0466-BS1)										Extracted: 01/20/10 10:50				
Total Suspended Solids	SM 2540D	60.0	---	10.0	mg/l	1x	--	60.0	100%	(80-120)	--	--	01/20/10 17:31	
Duplicate (10A0466-DUP1)										QC Source: PTA0350-01		Extracted: 01/20/10 10:50		
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	ND	--	--	--	NR	(20)	01/20/10 17:31	

TestAmerica Portland

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Estrella K Rieben

Estrella Rieben For Brian Cone, Industrial Services Manager

Republic Services-Metro S.Trnsfr Stn

2001 Washington St
Oregon City, OR 97045

Project Name:

Industrial Wastewater Discharge Permit

Project Number:

Q4 Sewer Discharge Sampling

Project Manager:

Kelly Herrod

Report Created:

01/28/10 13:56

Notes and Definitions

Report Specific Notes:

ID6 - This analyte was reported as ND based on the "total" result of ND. No additional analysis was performed.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland



Estella Rieben For Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Client Name/Account #: Republic Services - Metro South
 Address: 2001 Washington St
 City/State/Zip: Oregon City, OR 97045
 Project Manager: Kelly Herrod
 Telephone Number: 503-722-4656 Fax No.: _____
 Sampler Name: (Print) Jeremy Morgan
 Sampler Signature: *[Signature]*

TURN AROUND REQUEST: 10 DAY
 Work Order#: PTA 0357

Report To: Kelly Herrod
 Invoice To: _____
 TA Quote #: _____
 Project ID: Industrial Wastewater Discharge Permit
 Project #: _____

Tag ID: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix		Analyze For:																										
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	1L Poly Unpreserved	250mL Poly Unpreserved	Wastewater		O&G P/NP	FT-PH: 6, 4, 2	Cu, Pb, Zn, Hg	BOD	TSS	Sampling-Comp																					
Point of Compliance-Grab	1-14	1415	3	X		X				X		X	X																									
Point of Compliance-Comp	1-14	1420	3		X	X	X	X		X				X	X	X	X																					

Special Instructions: _____ Laboratory Comments: _____
 Temperature Upon Receipt: 1.0

Received by TestAmerica:	Date	Time
<u>Jeremy Morgan</u>	2-14-10	1420
IN LAB	1-14	15:50

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTA0357 Date/Time Received: 01/14/10 15:50
 Client Name and Project: Republic Service Metro - FWWDP

Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler #(s): 1
 Temperatures: 1+0
 Digi #1 Digi #2 IR Gun (Plastic Glass)

Temperature out of Range:

Not enough or No Ice
 Ice Melted
 W/in 4 Hrs of collection
 Other: _____

N/A Yes No

Initials: JH

- 1. If ESI client, were temp blanks received? If no, document on NOD.
- 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
- 3. Chain of Custody present? If no, document on NOD.
- 4. Bottles received intact? If no, document on NOD.
- 5. Sample is not multiphasic? If no, document on NOD.
- 6. Proper Container and preservatives used? If no, document on NOD.
- 7. pH of all samples checked and meet requirements? If no, document on NOD.
- 8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
- 9. HF Dilution required?
- 10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
- 11. Did chain of custody agree with samples received? If no, document on NOD.
- 12. Is the "Sampled by" section of the COC completed?
- 13. Were VOA/Oil Syringe samples without headspace?
- 14. Were VOA vials preserved? HCl Sodium Thiosulfate Ascorbic Acid
- 15. Did samples require preservation with sodium thiosulfate?
- 16. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
- 17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
- 18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.
- 19. Are analyses with short holding times received in hold?
- 20. Was Standard Turn Around (TAT) requested?
- 21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTA0357

Login Checks:

Initials: *JA*

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 25. Were special log in instructions read and followed? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 26. Were tests logged checked against the COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 27. Were rush notices printed and delivered? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 28. Were short hold notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 29. Were subcontract COCs printed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 30. Was HF dilution logged? |

Labeling and Storage Checks:

Initials: *JA*

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 31. Were the subcontracted samples/containers put in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 32. Were sample bottles and COC double checked for dissolved/filtered metals? |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 33. Did the sample ID, Date, and Time from label match what was logged? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Were HF stickers affixed to each container, and containers stored in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Was an NOD for created for noted discrepancies and placed in folder? |

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210
ORELAP#: OR100021

May 07, 2010

Kelly Herrod
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045


RE: Industrial Wastewater Discharge Permit

Enclosed are the results of analyses for samples received by the laboratory on 04/23/10 14:40.
The following list is a summary of the Work Orders contained in this report, generated on 05/07/10
16:14.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTD0708	Industrial Wastewater Dischar;	Q4 Sewer Discharge Sampling

TestAmerica Portland



Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
---	---	-----------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTD0708-01	Water	04/23/10 14:05	04/23/10 14:40
Point of Compliance-Comp	PTD0708-02	Water	04/23/10 14:00	04/23/10 14:40

TestAmerica Portland



Brian Cone, Industrial Services Manager

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Republic Services-South Metro

2001 Washington St
Oregon City, OR 97045

Project Name: **Industrial Wastewater Discharge Permit**

Project Number: Q4 Sewer Discharge Sampling

Project Manager: Kelly Herrod

Report Created:

05/07/10 16:14

Analytical Case Narrative

TestAmerica - Portland, OR

PTD0708

TestAmerica Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name:	Industrial Wastewater Discharge Permit	Report Created:
	Project Number:	Q4 Sewer Discharge Sampling	05/07/10 16:14
	Project Manager:	Kelly Herrod	

Oil and Grease Analysis per EPA Method 1664
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTD0708-01 (Point of Compliance-Grab)										
			Water					Sampled: 04/23/10 14:05		
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	10E0148	05/06/10 12:00	05/06/10 15:30	
Oil & Grease (non-polar)	"	ND	---	5.00	"	"	"	"	"	
Oil & Grease (polar)	[CALC]	ND	---	5.00	"	"	[CALC]	"	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
---	---	-----------------------------------

Total Metals per EPA 200 Series Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTD0708-02 (Point of Compliance-Comp)				Water			Sampled: 04/23/10 14:00			
Copper	EPA 200.8	0.00736	----	0.00200	mg/l	1x	10D0864	04/28/10 12:12	05/03/10 21:21	
Lead	"	0.00427	----	0.00100	"	"	"	"	"	
Zinc	"	0.0397	----	0.0100	"	"	"	"	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
---	---	-----------------------------------

Total Mercury per EPA Method 245.1
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTD0708-02	(Point of Compliance-Comp)									
				Water				Sampled: 04/23/10 14:00		
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	10E0095	05/04/10 16:53	05/05/10 10:28	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager


Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
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Conventional Chemistry Parameters per Standard Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTD0708-02 (Point of Compliance-Comp)		Water				Sampled: 04/23/10 14:00				
Biochemical Oxygen Demand	SM 5210B	40.9	----	4.00	mg/l	1x	10D0726	04/23/10 15:26	04/28/10 09:00	
Total Suspended Solids	SM 2540D	70.0	----	10.0	"	"	10D0907	04/29/10 10:50	04/29/10 16:46	

TestAmerica Portland

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 Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name:	Industrial Wastewater Discharge Permit	Report Created:
	Project Number:	Q4 Sewer Discharge Sampling	05/07/10 16:14
	Project Manager:	Kelly Herrod	

Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTD0708-01	(Point of Compliance-Grab)				Water			Sampled: 04/23/10 14:05		
pH	EPA 150.1	6.92	---		pH Units	1x	10D0799	04/23/10 14:10	04/23/10 14:15	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
---	---	-----------------------------------

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10E0148 Water Preparation Method: O&G prep CE

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10E0148-BLK1)										Extracted: 05/06/10 11:00				
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/06/10 15:30	
Blank (10E0148-BLK2)										Extracted: 05/06/10 11:00				
Oil & Grease (non-polar)	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/06/10 15:30	
LCS (10E0148-BS1)										Extracted: 05/06/10 11:00				
Oil & Grease	EPA 1664	37.8	---		mg/l	1x	--	40.0	94.5%	(78-114)	--	--	05/06/10 15:30	
LCS (10E0148-BS2)										Extracted: 05/06/10 11:00				
Oil & Grease (non-polar)	EPA 1664	15.3	---		mg/l	1x	--	20.0	76.5%	(64-132)	--	--	05/06/10 15:30	
Matrix Spike (10E0148-MS1)										QC Source: PTD0708-01 Extracted: 05/06/10 11:00				
Oil & Grease	EPA 1664	41.8	---		mg/l	1x	4.30	40.0	93.8%	(78-114)	--	--	05/06/10 15:30	
Matrix Spike (10E0148-MS2)										QC Source: PTD0708-01 Extracted: 05/06/10 11:00				
Oil & Grease (non-polar)	EPA 1664	21.4	---		mg/l	1x	3.40	20.0	90.0%	(64-132)	--	--	05/06/10 15:30	
Matrix Spike Dup (10E0148-MSD1)										QC Source: PTD0708-01 Extracted: 05/06/10 11:00				
Oil & Grease	EPA 1664	41.9	---		mg/l	1x	4.30	40.0	94.0%	(78-114)	0.239% (18)		05/06/10 15:30	
Matrix Spike Dup (10E0148-MSD2)										QC Source: PTD0708-01 Extracted: 05/06/10 11:00				
Oil & Grease (non-polar)	EPA 1664	17.8	---		mg/l	1x	3.40	20.0	72.0%	(64-132)	18.4% (34)		05/06/10 15:30	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
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Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica Portland

QC Batch: 10D0864 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10D0864-BLK1)													Extracted: 04/28/10 12:12	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	05/03/10 19:40	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (10D0864-BS1)													Extracted: 04/28/10 12:12	
Copper	EPA 200.8	0.101	---	0.00200	mg/l	1x	--	0.100	101%	(85-115)	--	--	05/03/10 19:48	
Lead	"	0.0998	---	0.00100	"	"	--	"	99.8%	"	--	--	"	
Zinc	"	0.0985	---	0.0100	"	"	--	"	98.5%	"	--	--	"	
Duplicate (10D0864-DUP1)													QC Source: PTD0660-01 Extracted: 04/28/10 12:12	
Copper	EPA 200.8	0.0134	---	0.00200	mg/l	1x	0.0152	--	--	--	12.3% (20)	--	05/03/10 20:50	
Lead	"	0.00141	---	0.00100	"	"	0.00154	--	--	--	8.81%	"	"	
Zinc	"	0.0366	---	0.0100	"	"	0.0416	--	--	--	12.9%	"	"	
Matrix Spike (10D0864-MS1)													QC Source: PTD0660-01 Extracted: 04/28/10 12:12	
Copper	EPA 200.8	0.107	---	0.00200	mg/l	1x	0.0152	0.100	91.7%	(75-125)	--	--	05/03/10 20:58	
Lead	"	0.0926	---	0.00100	"	"	0.00154	"	91.0%	"	--	--	"	
Zinc	"	0.133	---	0.0100	"	"	0.0416	"	91.1%	(70-130)	--	--	"	
Matrix Spike (10D0864-MS2)													QC Source: PTD0779-01 Extracted: 04/28/10 12:12	
Copper	EPA 200.8	0.103	---	0.00200	mg/l	1x	0.00157	0.100	101%	(75-125)	--	--	05/03/10 22:54	
Lead	"	0.0959	---	0.00100	"	"	0.000320	"	95.6%	"	--	--	"	
Zinc	"	0.120	---	0.0100	"	"	0.0196	"	101%	(70-130)	--	--	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
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Total Mercury per EPA Method 245.1 - Laboratory Quality Control Results

TestAmerica Portland

QC Batch: 10E0095 Water Preparation Method: EPA 245.1

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10E0095-BLK1)													Extracted: 05/04/10 16:53			
Mercury	EPA 245.1	ND	--	0.000200	mg/l	1x	--	--	--	--	--	--	05/05/10 10:09			
LCS (10E0095-BS1)													Extracted: 05/04/10 16:53			
Mercury	EPA 245.1	0.00510	---	0.000200	mg/l	1x	--	0.00500	102%	(85-115)	--	--	05/05/10 10:12			
LCS Dup (10E0095-BSD1)													Extracted: 05/04/10 16:53			
Mercury	EPA 245.1	0.00494	---	0.000200	mg/l	1x	--	0.00500	98.9%	(85-115)	3.19%	(20)	05/05/10 10:15			
Duplicate (10E0095-DUP1)													QC Source: PTD0631-01		Extracted: 05/04/10 16:53	
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	05/05/10 10:17			
Matrix Spike (10E0095-MS1)													QC Source: PTD0631-01		Extracted: 05/04/10 16:53	
Mercury	EPA 245.1	0.00488	---	0.000200	mg/l	1x	ND	0.00500	97.7%	(75-125)	--	--	05/05/10 10:20			
Matrix Spike Dup (10E0095-MSD1)													QC Source: PTD0631-01		Extracted: 05/04/10 16:53	
Mercury	EPA 245.1	0.00477	---	0.000200	mg/l	1x	ND	0.00500	95.4%	(75-125)	2.34%	(20)	05/05/10 10:23			

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 05/07/10 16:14
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Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10D0726 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10D0726-BLK1)													Extracted: 04/23/10 12:29			
Biochemical Oxygen Demand	SM 5210B	ND	---	4.00	mg/l	1x	--	--	--	--	--	--	04/28/10 09:00			
LCS (10D0726-BS1)													Extracted: 04/23/10 12:29			
Biochemical Oxygen Demand	SM 5210B	206	---	4.00	mg/l	1x	--	198	104%	(85-115)	--	--	04/28/10 09:00			
Duplicate (10D0726-DUP1)													QC Source: PTD0691-01		Extracted: 04/23/10 12:29	
Biochemical Oxygen Demand	SM 5210B	6.00	---	4.00	mg/l	1x	5.33	--	--	--	11.8%	(35)	04/28/10 09:00			

QC Batch: 10D0907 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10D0907-BLK1)													Extracted: 04/29/10 10:50			
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	04/29/10 16:46			
LCS (10D0907-BS1)													Extracted: 04/29/10 10:50			
Total Suspended Solids	SM 2540D	50.0	---	10.0	mg/l	1x	--	60.0	83.3%	(80-120)	--	--	04/29/10 16:46			
Duplicate (10D0907-DUP1)													QC Source: PTD0834-01		Extracted: 04/29/10 10:50	
Total Suspended Solids	SM 2540D	10.0	---	10.0	mg/l	1x	10.0	--	--	--	0.00%	(20)	04/29/10 16:46			

TestAmerica Portland

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Brian L Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro

2001 Washington St
Oregon City, OR 97045

Project Name: **Industrial Wastewater Discharge Permit**
Project Number: Q4 Sewer Discharge Sampling
Project Manager: Kelly Herrod

Report Created:
05/07/10 16:14

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

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Brian Cone, Industrial Services Manager

CHAIN OF CUSTODY RECORD



THE LEADER IN ENVIRONMENTAL TESTING

PTD0708

TURN AROUND REQUEST: 10 DAY

Client Name/Account #: Republic Services - Metro South

Address: 2001 Washington St

Work Order#: _____

City/State/Zip: Oregon City, OR 97045

Report To: Kelly Herrod

Project Manager: Kelly Herrod

Invoice To: _____

Telephone Number: 503-722-4656 Fax No.: _____

TA Quote #: _____

Sampler Name: (Print) Jeremy Morgan

Project ID: Industrial Wastewater Discharge Permit

Sampler Signature:

Project #: _____

Tag ID: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix				Analyze For:														
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	1L Poly Unpreserved	250mL Poly Unpreserved	Wastewater				O&G PNP	FT-PH: 6.92	Cu, Pb, Zn, Hg	BOD	TSS	Sampling-Comp									
Point of Compliance-Grab	4-23	1405	3	X		X				X					X	X												
Point of Compliance-Comp	4-23	1400	3		X	X	X	X		X						X	X	X	X									

Special Instructions: _____ Laboratory Comments: _____
 Temperature Upon Receipt: 29

Received by TestAmerica: 	Date	Time
Jeremy Morgan	4-23-10	1405
IN LAB	Date	Time
	4-23-10	1440

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTDO708 Date/Time Received: 4/23/10 1440
 Client Name and Project: Republic Services

Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler #(s): 29 _____
 Temperatures: 29 _____
 Digi #1 Digi #2 IR Gun
 Plastic Glass

Temperature out of Range:

____ Not enough or No Ice
 ____ Ice Melted
 ____ W/in 4 Hrs of collection
 ____ Other: _____

Initials: pm

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. If ESI client, were temp blanks received? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Chain of Custody present? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Bottles received intact? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Sample is not multiphasic? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Proper Container and preservatives used? If no, document on NOD. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. pH of all samples checked and meet requirements? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. HF Dilution required? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Did chain of custody agree with samples received? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12. Is the "Sampled by" section of the COC completed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. Were VOA/Oil Syringe samples without headspace? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. Were VOA vials preserved? <input type="checkbox"/> HCl <input type="checkbox"/> Sodium Thiosulfate <input type="checkbox"/> Ascorbic Acid |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. Did samples require preservation with sodium thiosulfate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. If yes to #15; was the residual chlorine test negative? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 19. Are analyses with short holding times received in hold? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 20. Was Standard Turn Around (TAT) requested? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM. |

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTDO708

Login Checks:

Initials: *dm*

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 25. Were special log in instructions read and followed? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 26. Were tests logged checked against the COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 27. Were rush notices printed and delivered? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 28. Were short hold notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 29. Were subcontract COCs printed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 30. Was HF dilution logged? |

Labeling and Storage Checks:

Initials: *dm*

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 31. Were the subcontracted samples/containers put in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 32. Were sample bottles and COC double checked for dissolved/filtered metals? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 33. Did the sample ID, Date, and Time from label match what was logged? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Were HF stickers affixed to each container, and containers stored in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Was an NOD for created for noted discrepancies and placed in folder? |

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

July 23, 2010

Kelly Herrod
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045

RE: Industrial Wastewater Discharge Permit

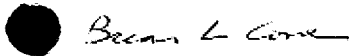
Enclosed are the results of analyses for samples received by the laboratory on 07/09/10 14:10.
The following list is a summary of the Work Orders contained in this report, generated on 07/23/10
15:52.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTG0268	Industrial Wastewater Dischar	Q3 Sewer Discharge Sampling

TestAmerica Portland

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Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q3 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 07/23/10 15:52
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTG0268-01	Water	07/09/10 13:00	07/09/10 14:10
Point of Compliance-Comp	PTG0268-02	Water	07/09/10 12:55	07/09/10 14:10

TestAmerica Portland

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Brian Cone, Industrial Services Manager

Republic Services-South Metro	Project Name: Industrial Wastewater Discharge Permit	Report Created:
2001 Washington St	Project Number: Q3 Sewer Discharge Sampling	07/23/10 15:52
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Oil and Grease Analysis per EPA Method 1664
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0268-01 (Point of Compliance-Grab)										
				Water				Sampled: 07/09/10 13:00		
Oil & Grease	EPA 1664	6.44	----	5.56	mg/l	1x	10G0329	07/12/10 13:05	07/13/10 14:57	RL4
Oil & Grease (non-polar)	"	ND	----	5.56	"	"	"	"	07/13/10 16:57	
Oil & Grease (polar)	[CALC]	6.44	----	5.56	"	"	[CALC]	"	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q3 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 07/23/10 15:52
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Total Metals per EPA 200 Series Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0268-02	(Point of Compliance-Comp)									
				Water				Sampled: 07/09/10 12:55		
Copper	EPA 200.8	0.0348	---	0.0100	mg/l	5x	10G0437	07/15/10 09:19	07/16/10 03:15	
Lead	"	0.0237	---	0.00500	"	"	"	"	"	
Zinc	"	0.397	---	0.0500	"	"	"	"	"	

TestAmerica Portland

Brian L. Cone

Brian Cone, Industrial Services Manager

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Republic Services-South Metro	Project Name: Industrial Wastewater Discharge Permit	Report Created:
2001 Washington St	Project Number: Q3 Sewer Discharge Sampling	07/23/10 15:52
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Total Mercury per EPA Method 245.1
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0268-02 (Point of Compliance-Comp)										
				Water				Sampled: 07/09/10 12:55		
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	10G0679	07/22/10 15:05	07/22/10 16:05	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name:	Industrial Wastewater Discharge Permit	Report Created:
	Project Number:	Q3 Sewer Discharge Sampling	07/23/10 15:52
	Project Manager:	Kelly Herrod	

Conventional Chemistry Parameters per Standard Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0268-02 (Point of Compliance-Comp)				Water			Sampled: 07/09/10 12:55			
Biochemical Oxygen Demand	SM 5210B	552	---	4.00	mg/l	1x	10G0261	07/09/10 15:33	07/14/10 09:29	
Total Suspended Solids	SM 2540D	171	---	28.6	"	"	10G0453	07/15/10 12:08	07/15/10 18:23	

TestAmerica Portland

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Brian Cone, Industrial Services Manager


Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name:	Industrial Wastewater Discharge Permit	Report Created:
	Project Number:	Q3 Sewer Discharge Sampling	07/23/10 15:52
	Project Manager:	Kelly Herrod	

Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0268-01	(Point of Compliance-Grab)									
				Water				Sampled: 07/09/10 13:00		
pH	EPA 150.1	5.87	---		pH Units	1x	10G0443	07/09/10 13:05	07/09/10 13:10	

TestAmerica Portland

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 Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q3 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 07/23/10 15:52
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Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10G0329 Water Preparation Method: O&G prep CE

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10G0329-BLK1)													Extracted: 07/12/10 10:00			
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	07/13/10 14:57			
Oil & Grease (non-polar)	"	ND	---	5.00	"	"	--	--	--	--	--	--	07/13/10 16:57			
Blank (10G0329-BLK2)													Extracted: 07/12/10 10:00			
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	07/13/10 16:57			
Oil & Grease (non-polar)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"			
LCS (10G0329-BS1)													Extracted: 07/12/10 10:00			
Oil & Grease	EPA 1664	36.8	---		mg/l	1x	--	40.0	92.0%	(78-114)	--	--	07/13/10 14:57			
LCS (10G0329-BS2)													Extracted: 07/12/10 10:00			
Oil & Grease (non-polar)	EPA 1664	15.0	---		mg/l	1x	--	20.0	75.0%	(64-132)	--	--	07/13/10 16:57			
Matrix Spike (10G0329-MS1)													QC Source: PTG0268-01		Extracted: 07/12/10 10:00	
Oil & Grease	EPA 1664	26.9	---		mg/l	1x	6.44	40.0	51.1%	(78-114)	--	--	07/13/10 14:57	RL4, M8		
Matrix Spike (10G0329-MS2)													QC Source: PTG0268-01		Extracted: 07/12/10 10:00	
Oil & Grease (non-polar)	EPA 1664	10.2	---		mg/l	1x	ND	20.0	51.1%	(64-132)	--	--	07/13/10 16:57	M8		
Matrix Spike Dup (10G0329-MSD1)													QC Source: PTG0268-01		Extracted: 07/12/10 10:00	
Oil & Grease	EPA 1664	29.3	---		mg/l	1x	6.44	40.0	57.2%	(78-114)	8.70%	(18)	07/13/10 14:57	RL4, M8		
Matrix Spike Dup (10G0329-MSD2)													QC Source: PTG0268-01		Extracted: 07/12/10 10:00	
Oil & Grease (non-polar)	EPA 1664	8.78	---		mg/l	1x	ND	20.0	43.9%	(64-132)	15.2%	(34)	07/13/10 16:57	M8		

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q3 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 07/23/10 15:52
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Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10G0437 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0437-BLK1)													Extracted: 07/15/10 09:19	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	07/16/10 02:14	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (10G0437-BS1)													Extracted: 07/15/10 09:19	
Copper	EPA 200.8	0.0988	---	0.00200	mg/l	1x	--	0.100	98.8%	(85-115)	--	--	07/16/10 02:18	
Lead	"	0.0998	---	0.00100	"	"	--	"	99.8%	"	--	--	"	
Zinc	"	0.0912	---	0.0100	"	"	--	"	91.2%	"	--	--	"	
Duplicate (10G0437-DUP1)													QC Source: PTG0205-02 Extracted: 07/15/10 09:19	
Copper	EPA 200.8	0.00358	---	0.00200	mg/l	1x	0.00396	--	--	--	10.1% (20)	--	07/16/10 02:25	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	2.09%	"	"	
Matrix Spike (10G0437-MS1)													QC Source: PTG0205-03 Extracted: 07/15/10 09:19	
Copper	EPA 200.8	0.103	---	0.00200	mg/l	1x	0.00337	0.100	99.5%	(75-125)	--	--	07/16/10 02:37	
Lead	"	0.106	---	0.00100	"	"	0.00396	"	102%	"	--	--	"	
Zinc	"	0.585	---	0.0100	"	"	0.516	"	69.0%	(70-130)	--	--	"	MHA
Matrix Spike (10G0437-MS2)													QC Source: PTG0377-01 Extracted: 07/15/10 09:19	
Copper	EPA 200.8	0.446	---	0.00200	mg/l	1x	0.354	0.100	92.4%	(75-125)	--	--	07/16/10 03:23	
Lead	"	0.0960	---	0.00100	"	"	ND	"	96.0%	"	--	--	"	
Zinc	"	0.0958	---	0.0100	"	"	ND	"	95.8%	(70-130)	--	--	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q3 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 07/23/10 15:52
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Total Mercury per EPA Method 245.1 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10G0679 Water Preparation Method: EPA 245.1

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0679-BLK1)													Extracted: 07/22/10 15:05	
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	07/22/10 15:49	
LCS (10G0679-BS1)													Extracted: 07/22/10 15:05	
Mercury	EPA 245.1	0.00525	---	0.000200	mg/l	1x	--	0.00500	105%	(85-115)	--	--	07/22/10 15:51	
LCS Dup (10G0679-BSD1)													Extracted: 07/22/10 15:05	
Mercury	EPA 245.1	0.00514	---	0.000200	mg/l	1x	--	0.00500	103%	(85-115)	2.01%	(20)	07/22/10 15:54	
Duplicate (10G0679-DUP1)													Extracted: 07/22/10 15:05	
				QC Source: PTG0425-06										
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	07/22/10 15:57	
Matrix Spike (10G0679-MS1)													Extracted: 07/22/10 15:05	
				QC Source: PTG0425-06										
Mercury	EPA 245.1	0.00498	---	0.000200	mg/l	1x	ND	0.00500	99.6%	(75-125)	--	--	07/22/10 16:00	
Matrix Spike Dup (10G0679-MSD1)													Extracted: 07/22/10 15:05	
				QC Source: PTG0425-06										
Mercury	EPA 245.1	0.00508	---	0.000200	mg/l	1x	ND	0.00500	102%	(75-125)	1.88%	(20)	07/22/10 16:02	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q3 Sewer Discharge Sampling Project Manager: Kelly Herrod	Report Created: 07/23/10 15:52
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Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10G0261 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0261-BLK1)										Extracted: 07/09/10 12:04				
Biochemical Oxygen Demand	SM 5210B	ND	---	4.00	mg/l	1x	--	--	--	--	--	--	07/14/10 09:29	
LCS (10G0261-BS1)										Extracted: 07/09/10 12:04				
Biochemical Oxygen Demand	SM 5210B	213	---	4.00	mg/l	1x	--	198	108%	(85-115)	--	--	07/14/10 09:29	
Duplicate (10G0261-DUP1)										QC Source: PTG0221-01 Extracted: 07/09/10 12:04				
Biochemical Oxygen Demand	SM 5210B	250	---	4.00	mg/l	1x	254	--	--	--	1.81%	(35)	07/14/10 09:29	

QC Batch: 10G0453 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0453-BLK1)										Extracted: 07/15/10 12:08				
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	07/15/10 18:23	
LCS (10G0453-BS1)										Extracted: 07/15/10 12:08				
Total Suspended Solids	SM 2540D	60.0	---	10.0	mg/l	1x	--	60.0	100%	(80-120)	--	--	07/15/10 18:23	
Duplicate (10G0453-DUP1)										QC Source: PTG0377-01 Extracted: 07/15/10 12:08				
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	ND	--	--	--	NR	(20)	07/15/10 18:23	

TestAmerica Portland

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Brian L. Cone
Brian Cone, Industrial Services Manager

Republic Services-South Metro

2001 Washington St
Oregon City, OR 97045

Project Name:

Industrial Wastewater Discharge Permit

Project Number:

Q3 Sewer Discharge Sampling

Report Created:

Project Manager:

Kelly Herrod

07/23/10 15:52

Notes and DefinitionsReport Specific Notes:

- M8 - The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- RL4 - Reporting limit raised due to insufficient sample volume.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland



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CHAIN OF CUSTODY RECORD



THE LEADER IN ENVIRONMENTAL TESTING

Client Name/Account #: Republic Services - Metro South

Address: 2001 Washington St

City/State/Zip: Oregon City, OR 97045

Project Manager: Kelly Herrod

Telephone Number: 503-722-4656

Fax No.:

Sampler Name: (Print) Jeremy Morgan

Sampler Signature:

PTG0268

TURN AROUND REQUEST: 10 DAY

Work Order#: _____

Report To: Kelly Herrod

Invoice To: _____

TA Quote #: _____

Project ID: Industrial Wastewater Discharge Permit

Project #: _____

Tag ID:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix		Analyze For:							
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	1L Poly Unpreserved	250mL Poly Unpreserved	Wastewater		O&G P/NP	FT-PH: <i>5.87</i>	Cu, Pb, Zn, Hg	BOD	TSS	Sampling-Comp		
Point of Compliance-Grab	7-9	1300	3	X		X				X		X							
Point of Compliance-Comp	7-9	1255	3		X	X	X	X		X			X	X	X	X			
Special Instructions:												Laboratory Comments: Temperature Upon Receipt: <i>1.8</i>							

Received by TestAmerica: 	Date	Time
Jeremy Morgan	7-9-10	1300
IN LAB	Date	Time
	7-9-10	1410

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTG102108 Date/Time Received: 7/19/10 1410
 Client Name and Project: Republic Services

Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler #(s): 1
 Temperatures: 1.8
 Digi #1 Digi #2 IR Gun (Plastic Glass)

Temperature out of Range:

Not enough or No Ice
 Ice Melted
 W/in 4 Hrs of collection
 Other: _____

Initials: PS

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. If ESI client, were temp blanks received? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Chain of Custody present? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Bottles received intact? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Sample is not multiphasic? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Proper Container and preservatives used? If no, document on NOD. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. pH of all samples checked and meet requirements? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. HF Dilution required? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Did chain of custody agree with samples received? If no, document on NOD. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12. Is the "Sampled by" section of the COC completed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 13. Were VOA/Oil Syringe samples without headspace? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 14. Were VOA vials preserved? <input type="checkbox"/> HCl <input type="checkbox"/> Sodium Thiosulfate <input type="checkbox"/> Ascorbic Acid |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. Did samples require preservation with sodium thiosulfate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. If yes to #15, was the residual chlorine test negative? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 19. Are analyses with short holding times received in hold? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 20. Was Standard Turn Around (TAT) requested? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM. |

TestAmerica Portland
Sample Receiving Checklist

Work Order #: PTG10268

Initials: dm

Login Checks:

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM. |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 25. Were special log in instructions read and followed? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 26. Were tests logged checked against the COC? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 27. Were rush notices printed and delivered? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 28. Were short hold notices printed and delivered? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 29. Were subcontract COCs printed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 30. Was HF dilution logged? |

Labeling and Storage Checks:

Initials: PS

- | N/A | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 31. Were the subcontracted samples/containers put in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 32. Were sample bottles and COC double checked for dissolved/filtered metals? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 33. Did the sample ID, Date, and Time from label match what was logged? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 34. Were Foreign sample stickers affixed to each container and containers stored in foreign fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 35. Were HF stickers affixed to each container, and containers stored in Sx fridge? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 36. Was an NOD for created for noted discrepancies and placed in folder? |

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

October 29, 2010

Kelly Herrod
Republic Services-South Metro
2001 Washington St
Oregon City, OR 97045


RE: Industrial Wastewater Discharge Permit

Enclosed are the results of analyses for samples received by the laboratory on 10/15/10 15:10.
The following list is a summary of the Work Orders contained in this report, generated on 10/29/10 16:35.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTJ0509	Industrial Wastewater Dischar;	Q4 Sewer Discharge Sampling

TestAmerica Portland


Brian Cone, Industrial Services Manager

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Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTJ0509-01	Water	10/15/10 12:40	10/15/10 15:10
Point of Compliance-Comp	PTJ0509-02	Water	10/15/10 12:35	10/15/10 15:10

TestAmerica Portland



Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Republic Services-South Metro	Project Name: Industrial Wastewater Discharge Permit	Report Created:
2001 Washington St	Project Number: Q4 Sewer Discharge Sampling PO#	10/29/10 16:35
Oregon City, OR 97045	Project Manager: Kelly Herrod	

Oil and Grease Analysis per EPA Method 1664
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTJ0509-01 (Point of Compliance-Grab)										
				Water				Sampled: 10/15/10 12:40		
Oil & Grease	EPA 1664A	ND	----	4.76	mg/l	1x	10J0915	10/28/10 10:45	10/28/10 14:59	ID6
Oil & Grease (non-polar)	"	ND	----	5.00	"	"	"	"	10/28/10 15:05	
Oil & Grease (polar)	[CALC]	ND	----	5.00	"	"	[CALC]	"	"	

TestAmerica Portland

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Brian L. Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
---	---	-----------------------------------

Total Metals per EPA 200 Series Methods
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTJ0509-02	(Point of Compliance-Comp)									
		Water				Sampled: 10/15/10 12:35				
Copper	EPA 200.8	0.113	----	0.0100	mg/l	5x	10J0599	10/19/10 09:46	10/19/10 18:10	
Lead	"	0.133	----	0.00500	"	"	"	"	"	
Zinc	"	0.959	----	0.0500	"	"	"	"	"	

TestAmerica Portland



Brian Cone, Industrial Services Manager

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Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
---	---	-----------------------------------

Total Mercury per EPA Method 245.1
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTJ0509-02	(Point of Compliance-Comp)									
				Water				Sampled: 10/15/10 12:35		
Mercury	EPA 245.1	0.000426	----	0.000400	mg/l	1x	10J0587	10/18/10 16:30	10/19/10 11:36	

TestAmerica Portland



Brian Cone, Industrial Services Manager

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Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
---	---	-----------------------------------

Conventional Chemistry Parameters per Standard Methods
 TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTJ0509-01 (Point of Compliance-Grab)										Water
										Sampled: 10/15/10 12:40
pH	SM 4500-HB	7.09	---		pH Units	1x	10J0613	10/15/10 12:45	10/15/10 12:50	
PTJ0509-02 (Point of Compliance-Comp)										Water
										Sampled: 10/15/10 12:35
Biochemical Oxygen Demand	SM 5210B	982	---	2.00	mg/l	1x	10J0529	10/15/10 15:45	10/20/10 11:27	
Total Suspended Solids	SM 2540D	460	---	50.0	"	"	10J0754	10/22/10 12:08	10/22/10 17:58	

TestAmerica Portland

Brian L. Cone

Brian Cone, Industrial Services Manager

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Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
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Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10J0915 Water Preparation Method: O&G prep CE

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10J0915-BLK1)													Extracted: 10/28/10 10:00			
Oil & Grease	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	10/28/10 14:59			
Blank (10J0915-BLK2)													Extracted: 10/28/10 10:00			
Oil & Grease (non-polar)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	10/28/10 15:05			
LCS (10J0915-BS1)													Extracted: 10/28/10 10:00			
Oil & Grease	EPA 1664A	36.9	---		mg/l	1x	--	40.0	92.2%	(78-114)	--	--	10/28/10 14:59			
LCS (10J0915-BS2)													Extracted: 10/28/10 10:00			
Oil & Grease (non-polar)	EPA 1664A	15.5	---		mg/l	1x	--	20.0	77.5%	(64-132)	--	--	10/28/10 15:05			
Matrix Spike (10J0915-MS1)													QC Source: PTJ0382-01		Extracted: 10/28/10 10:00	
Oil & Grease	EPA 1664A	49.0	---		mg/l	1x	27.8	40.0	53.1%	(78-114)	--	--	10/28/10 14:59	M8		
Matrix Spike (10J0915-MS2)													QC Source: PTJ0382-01		Extracted: 10/28/10 10:00	
Oil & Grease (non-polar)	EPA 1664A	13.4	---		mg/l	1x	9.62	20.0	19.0%	(64-132)	--	--	10/28/10 15:05	M8		
Matrix Spike Dup (10J0915-MSD1)													QC Source: PTJ0382-01		Extracted: 10/28/10 10:00	
Oil & Grease	EPA 1664A	136	---		mg/l	1x	27.8	40.0	270%	(78-114)	93.9%	(18)	10/28/10 14:59	M7		
Matrix Spike Dup (10J0915-MSD2)													QC Source: PTJ0382-01		Extracted: 10/28/10 10:00	
Oil & Grease (non-polar)	EPA 1664A	45.6	---		mg/l	1x	9.62	20.0	180%	(64-132)	109%	(34)	10/28/10 15:05	M7		

TestAmerica Portland

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Brian L Cone

Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
---	---	-----------------------------------

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10J0599 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10J0599-BLK1)													Extracted: 10/19/10 09:46	
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	10/19/10 16:51	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (10J0599-BS1)													Extracted: 10/19/10 09:46	
Copper	EPA 200.8	0.0958	---	0.00200	mg/l	1x	--	0.100	95.8%	(85-115)	--	--	10/19/10 16:57	
Lead	"	0.0955	---	0.00100	"	"	--	"	95.5%	"	--	--	"	
Zinc	"	0.0900	---	0.0100	"	"	--	"	90.0%	"	--	--	"	
Duplicate (10J0599-DUP1)													QC Source: PTJ0453-11 Extracted: 10/19/10 09:46	
Copper	EPA 200.8	0.0402	---	0.00200	mg/l	1x	0.0404	--	--	--	0.347% (20)	--	10/19/10 17:06	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	1.53%	"	"	
Zinc	"	ND	---	0.0100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (10J0599-MS1)													QC Source: PTJ0459-06 Extracted: 10/19/10 09:46	
Copper	EPA 200.8	0.105	---	0.00200	mg/l	1x	0.0140	0.100	90.6%	(75-125)	--	--	10/19/10 17:18	
Lead	"	0.0899	---	0.00100	"	"	0.000300	"	89.6%	"	--	--	"	
Zinc	"	0.172	---	0.0100	"	"	0.0847	"	87.1%	(70-130)	--	--	"	
Matrix Spike (10J0599-MS2)													QC Source: PTJ0505-01 Extracted: 10/19/10 09:46	
Copper	EPA 200.8	0.0918	---	0.00200	mg/l	1x	0.00121	0.100	90.6%	(75-125)	--	--	10/19/10 18:06	
Lead	"	0.0928	---	0.00100	"	"	ND	"	92.8%	"	--	--	"	
Zinc	"	0.0919	---	0.0100	"	"	ND	"	91.9%	(70-130)	--	--	"	

TestAmerica Portland

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Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
---	---	-----------------------------------


Total Mercury per EPA Method 245.1 - Laboratory Quality Control Results
 TestAmerica Portland

QC Batch: 10J0587 Water Preparation Method: EPA 245.1

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10J0587-BLK1)													Extracted: 10/18/10 16:30	
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	10/19/10 10:52	
LCS (10J0587-BS1)													Extracted: 10/18/10 16:30	
Mercury	EPA 245.1	0.00551	---	0.000200	mg/l	1x	--	0.00500	110%	(85-115)	--	--	10/19/10 10:55	
LCS Dup (10J0587-BSD1)													Extracted: 10/18/10 16:30	
Mercury	EPA 245.1	0.00568	---	0.000200	mg/l	1x	--	0.00500	114%	(85-115)	3.09%	(20)	10/19/10 10:59	
Duplicate (10J0587-DUP1)													QC Source: PTJ0134-02 Extracted: 10/18/10 16:30	
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	ND	--	--	--	NR	(20)	10/19/10 11:02	
Matrix Spike (10J0587-MS1)													QC Source: PTJ0517-01 Extracted: 10/18/10 16:30	
Mercury	EPA 245.1	0.00536	---	0.000200	mg/l	1x	ND	0.00500	107%	(75-125)	--	--	10/19/10 11:05	
Matrix Spike Dup (10J0587-MSD1)													QC Source: PTJ0517-01 Extracted: 10/18/10 16:30	
Mercury	EPA 245.1	0.00544	---	0.000200	mg/l	1x	ND	0.00500	109%	(75-125)	1.51%	(20)	10/19/10 11:08	

TestAmerica Portland

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 Brian Cone, Industrial Services Manager

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045	Project Name: Industrial Wastewater Discharge Permit Project Number: Q4 Sewer Discharge Sampling PO# Project Manager: Kelly Herrod	Report Created: 10/29/10 16:35
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Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10J0529 Water Preparation Method: General

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10J0529-BLK1)													Extracted: 10/15/10 15:45			
Biochemical Oxygen Demand	SM 5210B	ND	---	2.00	mg/l	1x	--	--	--	--	--	--	10/20/10 11:27			
LCS (10J0529-BS1)													Extracted: 10/15/10 15:45			
Biochemical Oxygen Demand	SM 5210B	223	---	2.00	mg/l	1x	--	198	113%	(85-115)	--	--	10/20/10 11:27			
Duplicate (10J0529-DUP1)													QC Source: PTJ0512-01		Extracted: 10/15/10 15:45	
Biochemical Oxygen Demand	SM 5210B	5.36	---	2.00	mg/l	1x	5.56	--	--	--	3.66%	(35)	10/20/10 11:27			

QC Batch: 10J0754 Water Preparation Method: General

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (10J0754-BLK1)													Extracted: 10/22/10 12:08			
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	--	--	--	--	--	--	10/22/10 17:58			
LCS (10J0754-BS1)													Extracted: 10/22/10 12:08			
Total Suspended Solids	SM 2540D	59.0	---	10.0	mg/l	1x	--	60.0	98.3%	(80-120)	--	--	10/22/10 17:58			
Duplicate (10J0754-DUP1)													QC Source: PTJ0570-01		Extracted: 10/22/10 12:08	
Total Suspended Solids	SM 2540D	ND	---	10.0	mg/l	1x	ND	--	--	--	NR	(20)	10/22/10 17:58			

TestAmerica Portland

Brian L. Cone
Brian Cone, Industrial Services Manager

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Republic Services-South Metro

2001 Washington St
Oregon City, OR 97045

Project Name: **Industrial Wastewater Discharge Permit**

Project Number: Q4 Sewer Discharge Sampling PO#

Project Manager: Kelly Herrod

Report Created:

10/29/10 16:35

Notes and Definitions

Report Specific Notes:

- ID6 - This analyte was reported as ND based on the "total" result of ND. No additional analysis was performed.
- M7 - The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- M8 - The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland



Brian Cone, Industrial Services Manager

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CERTIFICATION SUMMARY

TestAmerica Portland

Method	Matrix	Oregon
[CALC]	Water	
EPA 1664A	Water	X
EPA 200.8	Water	X
EPA 245.1	Water	X
None	Water	
SM 2540D	Water	X
SM 4500-H B	Water	X
SM 5210B	Water	X

TestAmerica Portland



Brian Cone, Industrial Services Manager

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THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY RECORD

PTJ0509

TURN AROUND REQUEST: 10 DAY

Client Name/Account #: Republic Services - Metro South
 Address: 2001 Washington St
 City/State/Zip: Oregon City, OR 97045
 Project Manager: Kelly Herrod
 Telephone Number: 503-722-4656 Fax No.: _____
 Sampler Name: (Print) Jeremy Morgan
 Sampler Signature: _____

Work Order#: _____
 Report To: Kelly Herrod
 Invoice To: _____
 TA Quote #: _____
 Project ID: Industrial Wastewater Discharge Permit
 Project #: _____

Tag ID: _____

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite	Preservative				Matrix		Analyze For:					
						1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	1L Poly Unpreserved	250mL Poly Unpreserved	Wastewater	O&G P/NP	FT-PH: <i>7.07</i>	Cu, Pb, Zn, Hg	BOD	TSS	Sampling-Comp	
Point of Compliance-Grab	<i>10-15</i>	<i>1240</i>	3	X		X				X		X					
Point of Compliance-Comp	<i>10-15</i>	<i>1235</i>	3		X	X	X	X	X				X	X	X	X	

Special Instructions: _____

Laboratory Comments:
 Temperature Upon Receipt: *4.1*

Received by TestAmerica: <i>[Signature]</i> Jeremy Morgan	Date <i>10-15-10</i>	Time <i>1246</i>
IN LAB	Date <i>10-15-10</i>	Time <i>1508</i>

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Portland Sample Control Checklist

Work Order #: PT 50509 Date/Time Received: 10/15/10 4:510
Client Name: Republic Services - Metro South
Project Name: Industrial Wastewater Discharge Permit
Time Zone:
 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler (s): 1
Temperature (s): 4, 1
Digi #1 Digi #2 IR Gun (Plastic Glass)
Raytek (Plastic Glass)

Temperature out of Range:

Not enough or No Ice
 Ice Melted
 W/in 4 Hrs of collection
 Ice Not Needed
 Other: _____

Ice used: (circle one)

GEL LOOSE BLUE OTHER: _____

Initials: MM

N/A Yes No

- 1. If ESI client, were temp blanks received? If no, document on NOD.
- 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
- 3. Chain of Custody present? Along with "received by" & "relinquished by" signatures with date & time? If no, document on NOD.
- 4. Bottles received intact? If no, document on NOD.
- 5. Sample is not multiphasic? If no, document on NOD.
- 6. Sampler name/signature documented on COC?
- 7. Proper Container and preservatives used? If no, document on NOD.
- 8. pH of all samples checked and meet requirements? If no, document on NOD.
- 9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
- 10. HF Dilution required?
- 11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
- 12. Did chain of custody agree with samples received? If no, document on NOD.
- 13. Were VOA samples received without headspace?
- 14. Did samples require preservation with sodium thiosulfate?
- 15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
- 16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
- 17. Are analyses with short holding times received in hold?
- 18. Were special log-in instructions read and followed?

Checklist Reviewed:

Log-in initials: MM

Labeler initials: MM

February 17, 2011

Metro
600 N.E. Grand Avenue
Portland, OR 97232

RE: MCS and MSS Annual Sustainability Report Summary

Metro,

This summary report contains information and data on sustainability practices by Allied Waste, including Energy Consumption, Diesel Particulate Pollution Reduction, Idling Reduction, Biodiesel, Natural Resource Conservation, Toxics Reduction, Best Practices for Customer and Employee health and Safety.

Energy

Prior to the beginning of the contract, Allied Waste contracted with Christenson Electric to conduct a facility energy audit and inspection. As a result of this audit, we further contracted to conduct electrical distribution system testing and the cleaning, torque, of all electrical switchgears, motor controls, dry transformers, distribution panels, and automatic transfer switches at the site. This work was to identify and correct energy leaks in the current system.



Figure 1 Energy efficient lighting and mister Bay 3

Also as a result of the audit, Allied Waste chose to upgrade the facility's primary lighting fixtures from high use halide and high pressure sodium fixtures to more energy efficient equipment florescent fixtures with motion sensors. The facility estimated annual energy

saving of 168,573 kWh. The project is said to offset 64 tons of CO₂ generated by fossil fuels.

In 2009 the facility used 1,400,227 kWh. In 2010, the facility used 1,271,859 kWh. This reflects a reduction in energy use by 128,368 kWh. This only reflects a partial year since implementation of our energy reduction plan.

Allied Waste purchases 100% Clean Wind Green Tags "Gold Level" for all power purchased. See Appendix A.

Diesel Particulate Pollution Reduction

Allied Waste is currently in the process of retrofitting any existing diesel powered rolling stock which is not already tier 4 compliant and has been identified as requiring either a diesel oxidation catalyst (DOC) and/or diesel particulate filter (DPF) based on its engine horsepower rating.

Allied Waste currently purchases B20 Biodiesel above and beyond the general conditions of the contract.

Allied Waste has in place an Idling Reduction Policy. All employees receive annual training on the policy. Supervisors are required to enforce the policy. See Appendix B.

Natural Resource Conservation

We currently have in place in all offices and break areas, an in house recycling program to include, paper, cardboard & containers.

To minimize treated water usage, completion of a rainwater harvesting system was finalized at the truck wash in January 2011. Internally, low-flow toilets are currently in use. See Appendix C.



Figure 2 5000 gallon rain water storage tank behind the truck wash

magnets have been installed on the back of all loaders. See Appendix D.

METRO SOUTH TRANSFER STATION ANNUAL REPORT - 2010

Utility Expenses

**Metro South Transfer Station
Year Ending 12/31/10**

<u>Month</u>	<u>Electric</u>	<u>Water / Sewer</u>	<u>Total</u>	<u>Inbound Tonnage</u>	<u>Cost Per Ton</u>
January	\$11,899.49	\$2,448.84	\$14,348.33	17,606.21	\$0.81
February	\$11,417.11	\$2,886.90	\$14,304.01	17,070.25	\$0.84
March	\$10,441.26	\$2,488.78	\$12,930.04	19,826.82	\$0.65
April	\$9,461.35	\$3,082.74	\$12,544.09	20,131.14	\$0.62
May	\$9,500.06	\$2,855.80	\$12,355.86	19,889.19	\$0.62
June	\$9,157.80	\$3,459.19	\$12,616.99	21,666.12	\$0.58
July	\$8,598.21	\$3,993.31	\$12,591.52	21,548.56	\$0.58
August	\$9,281.94	\$2,634.54	\$11,916.48	21,294.34	\$0.56
September	\$9,039.00	\$2,820.94	\$11,859.94	20,892.28	\$0.57
October	\$8,667.82	\$3,059.06	\$11,726.88	19,786.18	\$0.59
November	\$9,057.98	\$2,043.06	\$11,101.04	19,139.92	\$0.58
December	\$10,853.55	\$1,997.74	\$12,851.29	21,121.09	\$0.61
Total	\$117,375.57	\$33,770.90	\$151,146.47	239,972.10	\$0.64

<u>Month</u>	<u>KiloWatt Hours</u>	<u>kWatt hrs/Day</u>	<u>Gallons</u>	<u>Gallons/Day</u>
January	135,688	4,377.03	240,108	7,745.42
February	134,125	4,790.18	288,728	10,311.71
March	120,193	3,877.19	227,392	7,335.23
April	106,351	3,545.03	320,144	10,671.47
May	108,199	3,490.29	294,712	9,506.84
June	103,108	3,436.93	383,724	12,790.80
July	95,976	3,096.00	465,256	15,008.26
August	96,524	3,113.68	252,824	8,155.61
September	88,027	2,934.23	178,772	5,959.07
October	82,819	2,671.58	310,420	10,013.55
November	87,943	2,931.43	150,348	5,011.60
December	112,906	3,642.13	141,372	4,560.39
Total	1,271,859	3,492.14	3,253,800	8,922.49

Appendix G

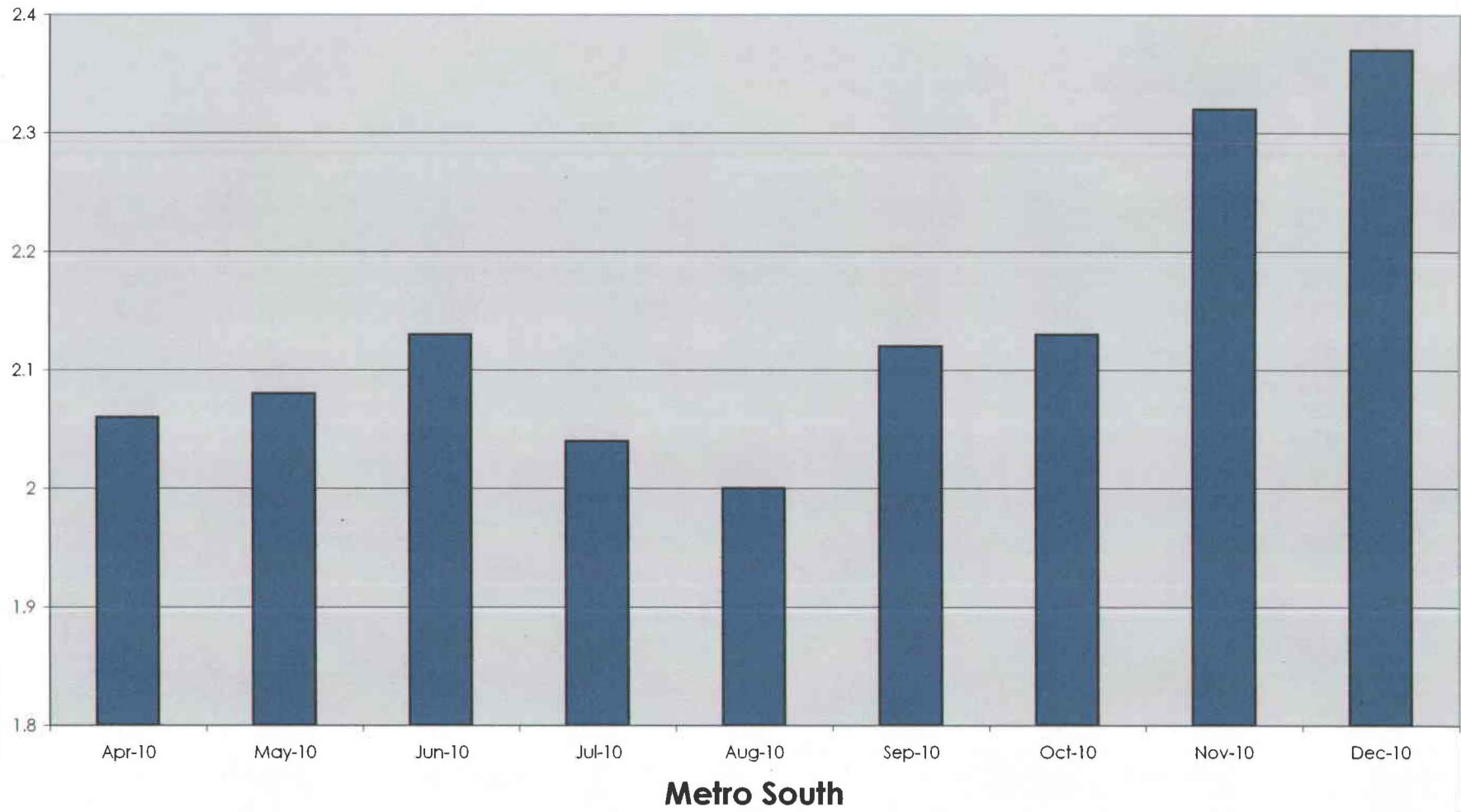
Section 1 – Recovery Operations

Section 2 – Loading Operations

Section 3 – Customer Service

Section 4 - Safety

April 2010 through December 2010 Monthly Average Loads per hr.





CUSTOMER SERVICE SURVEY

ALLIED WASTE SERVICES – METRO SOUTH STATION T/S

08 – 31 DECEMBER 2010

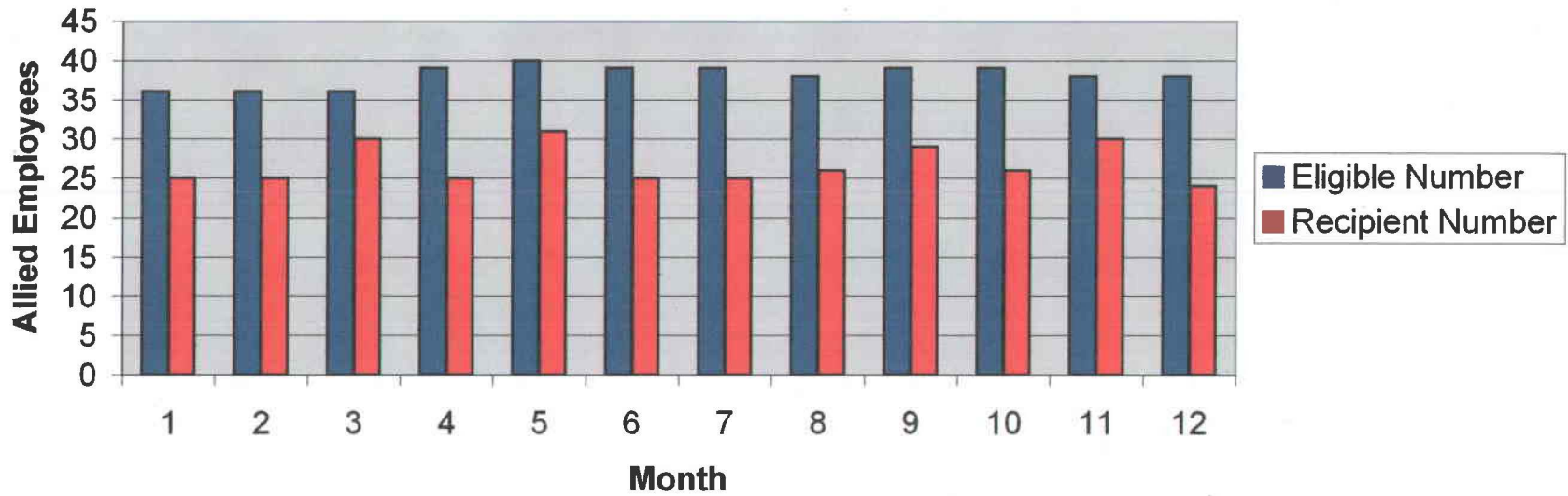
1. Survey Card Template
2. Commercial – Automated Results
3. Commercial – Non Automated Results
4. Public Self Haul Results
5. Customer Comments

Task: Complete a Customer Service Survey incorporating Commercial Automated, Commercial Non-Automated and Public Self-haul customers.

Conditions: Beginning 21 December 2010 and ending on 03 January 2011 approximately 500 survey cards were distributed with a return of 419 collected. Cards were distributed during all hours of operation encompassing every day of the week with a concentration during peak hours for each of the groups.

Standards: Survey a minimum of 30% of customer traffic during peak hours of operation for each of the groups. Peak hours were determined to be 0800-1200 for Commercial Automated and 1000-1400 for Commercial Non-Automated and Public Self-haul.

2010 Monthly DTS Performance



Appendix H

Q1 MCS Summary Information

Central Station MSW Densified and Transported to Arlington

2010

Month	# Loads	Tons Densified	Average Tons per Load	Base Tonnage	Bonus Tonnage
January	586	19,770.68	33.74	16,994.00	2,776.68
February	529	17,940.58	33.91	15,341.00	2,599.58
March	606	20,542.81	33.90	17,574.00	2,968.81
April	0	0.00	#DIV/0!	0.00	0.00
May	0	0.00	#DIV/0!	0.00	0.00
June	0	0.00	#DIV/0!	0.00	0.00
July	0	0.00	#DIV/0!	0.00	0.00
August	0	0.00	#DIV/0!	0.00	0.00
September	0	0.00	#DIV/0!	0.00	0.00
October	0	0.00	#DIV/0!	0.00	0.00
November	0	0.00	#DIV/0!	0.00	0.00
December	0	0.00	#DIV/0!	0.00	0.00
Total	1721	58,254.07	33.85	49,909.00	8,345.07

Note: *Base tonnage is @ 29 tons per load: Jan - Mar 2010.

South Station MSW Densified and Transported to Arlington

2010

Month	# Loads	Tons Densified	Average Tons per Load	Base Tonnage	Bonus Tonnage
January*	456	15,350.38	33.66	13,224.00	2,126.38
February*	443	15,097.75	34.08	12,847.00	2,250.75
March*	535	18,305.53	34.22	15,515.00	2,790.53
April**	513	17,567.82	34.25	17,185.50	382.32
May**	513	17,580.68	34.27	17,185.50	395.18
June**	540	18,443.53	34.15	18,090.00	353.53
July**	587	20,078.47	34.21	19,664.50	413.97
August**	586	20,078.45	34.26	19,631.00	447.45
September**	571	19,557.23	34.25	19,128.50	428.73
October**	519	17,703.21	34.11	17,386.50	316.71
November**	485	16,571.36	34.17	16,247.50	323.86
December**	561	19,142.27	34.12	18,793.50	348.77
Total	6309	215476.68	34.15	204898.50	10578.18

Note:

*Base tonnage is @ 29 tons per load: Jan - Mar 2010.

**Base tonnage is @ 33.5 tons per load: Apr - Dec 2010.

METRO CENTRAL TRANSFER STATION ANNUAL REPORT - 2010

Utility Expenses

**Metro Central Transfer Station
Year Ending 12/31/10**

<u>Month</u>	<u>Electric</u>	<u>Water / Sewer</u>	<u>Natural Gas</u>	<u>Total</u>	<u>Inbound Tonnage</u>	<u>Cost Per Ton</u>
January	15,524.31	4,481.92	377.80	20,384.03	21,773.66	\$0.94
February	16,523.88	4,634.98	317.17	21,476.03	20,523.98	\$1.05
March	9,646.85	3,477.08	254.56	13,378.49	22,847.06	\$0.59
April	0.00	0.00	0.00	-		#DIV/0!
May	0.00	0.00	0.00	-		#DIV/0!
June	0.00	0.00	0.00	-		#DIV/0!
July	0.00	0.00	0.00	-		#DIV/0!
August	0.00	0.00	0.00	-		#DIV/0!
September	0.00	0.00	0.00	-		#DIV/0!
October	0.00	0.00	0.00	-		#DIV/0!
November	0.00	0.00	0.00	-		#DIV/0!
December	0.00	0.00	0.00	-		#DIV/0!
Total	41,695.04	12,593.98	949.53	55,238.55	65,144.70	#DIV/0!

INCOMING DRY MSW - January 2010

METRO CENTRAL

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	142.45	142.45	0.00
CAR W/ 1 AXLE TRAILER	52.88	52.88	0.00
FLAT BED	157.72	157.72	0.00
LOOSE DROP BOX	1314.78	1314.78	0.00
MISC (UTIL/STEP VAN)	609.69	609.69	0.00
PICKUP & 1 AXLE TRAILER	493.83	493.83	0.00
PICKUP W/ 2 AXLE OR GREATER	130.15	130.15	0.00
STANDARD PICKUP	731.19	731.19	0.00
TOTALS	3,632.69	3,632.69	0.00

METRO SOUTH

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	205.40	205.40	0.00
CAR W/ 1 AXLE TRAILER	107.41	107.41	0.00
FLAT BED	284.80	284.80	0.00
LOOSE DROP BOX	1434.84	1434.84	0.00
MISC (UTIL/STEP VAN)	1003.51	1003.51	0.00
PICKUP & 1 AXLE TRAILER	1393.00	1393.00	0.00
PICKUP W/ 2 AXLE OR GREATER	361.25	361.25	0.00
STANDARD PICKUP	1263.68	1263.68	0.00
TOTALS	6,053.89	6,053.89	0.00

COMBINED

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	347.85	347.85	0.00
CAR W/ 1 AXLE TRAILER	160.29	160.29	0.00
FLAT BED	442.52	442.52	0.00
LOOSE DROP BOX	2,749.62	2,749.62	0.00
MISC (UTIL/STEP VAN)	1,613.20	1,613.20	0.00
PICKUP & 1 AXLE TRAILER	1,886.83	1,886.83	0.00
PICKUP W/ 2 AXLE OR GREATER	491.40	491.40	0.00
STANDARD PICKUP	1,994.87	1,994.87	0.00
TOTALS	9,686.58	9,686.58	0.00

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METRO CENTRAL MONTHLY RECYCLING REPORT

Jan-10

DATE	DAY	Oil Filters	Mixed Waste Paper	To Central Millwood	Film Plastics	Rubble	Electronics	Hard Plastics	To-Central Hard Plastics	To-Central Film Plastics	To-Central Compressors	Propane - lbs	Daily Total
1	Fri												0.00
2	Sat												49.79
3	Sun												0.00
4	Mon						6.15						87.40
5	Tue												136.02
6	Wed												100.77
7	Thu												162.13
8	Fri												101.71
9	Sat												38.29
10	Sun												0.00
11	Mon												77.95
12	Tue												103.09
13	Wed						6.54						81.94
14	Thu												98.74
15	Fri												83.37
16	Sat												23.90
17	Sun												0.00
18	Mon						3.29						118.25
19	Tue											0.31	165.16
20	Wed						5.77						185.72
21	Thu												134.24
22	Fri												26.19
23	Sat		.58		1.62			1.00					5.53
24	Sun												0.00
25	Mon												83.42
26	Tue												151.78
27	Wed												99.63
28	Thu					7.78	2.85						178.01
29	Fri							1.05					118.61
30	Sat												27.56
31	Sun												0.00
South Subtraction					-1.67								-1.67
TOTALS		.00	.58	.00	-0.05	7.78	24.60	2.05	.00	.00	.00	.31	2,437.53

METRO CENTRALH RE-USABLE REPORT

Jan-10

DATE	DAY	Carpet	Textiles - Recycling	Community Recycling	Cracked Pots	Propane-5's	Rebuilding Center	SVDP-Reuse	Plastic Nursery Pots	Daily Total
1	Fri									.00
2	Sat									.00
3	Sun									.00
4	Mon									.00
5	Tue									.00
6	Wed									.00
7	Thu						.17			.17
8	Fri									.00
9	Sat									.00
10	Sun									.00
11	Mon									.00
12	Tue					.46				.46
13	Wed									.00
14	Thu						.59			.59
15	Fri									.00
16	Sat									.00
17	Sun									.00
18	Mon									.00
19	Tue									.00
20	Wed						.60			.60
21	Thu									.00
22	Fri									.00
23	Sat									.00
24	Sun									.00
25	Mon									.00
26	Tue									.00
27	Wed									.00
28	Thu									.00
29	Fri									.00
30	Sat									.00
31	Sun									.00
TOTALS		0.00	0.00	0.00	0.00	0.46	1.36	0.00	0.00	1.82

METRO CENTRAL MONTHLY INBOUND TONNAGE REPORT

Jan-10

TOTAL INBOUND TRANSACTIONS													9,621		TOTAL INBOUND TC				20,111.45	
DATE	DAY	SOURCE SEPERATED		COMMERCIAL CURBSIDE		ORGANICS		MSW			YARD DEBRIS			TOTAL TRANS		TOTAL REVENUE				
		TRANS	ONS (EST)	TRANS	TONS	TRANS	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONNAGE				
1	Fri													0	0	0.00				
2	Sat	21	1.03			12	66.14	246	125	783.70	15		4.37	261	125	854.21				
3	Sun	20	1.02			4	18.03	189	22	153.63	15		2.85	204	22	174.51				
4	Mon	18	0.90			13	65.81	144	178	942.91	9	1	2.79	153	179	1,011.51				
5	Tue	10	0.88			17	77.68	129	180	947.46	5	1	6.15	134	181	1,031.29				
6	Wed	7	0.34			12	62.98	119	179	848.65	8	1	2.83	127	180	914.46				
7	Thu	15	1.54			16	67.07	142	180	883.32	8	2	8.30	150	182	958.69				
8	Fri	12	0.39			14	58.76	119	167	853.72	8	1	1.72	127	168	914.20				
9	Sat	19	1.02			8	37.27	234	46	282.48	25		6.36	259	46	326.11				
10	Sun	13	0.76			4	15.31	166	23	128.55	27		5.79	193	23	149.65				
11	Mon	15	0.60			14	69.43	177	185	980.88	9		3.99	186	185	1,054.30				
12	Tue	8	0.26			17	77.03	144	200	964.54	10	2	6.61	154	202	1,048.18				
13	Wed	7	0.26			15	73.85	128	171	743.28	8	1	2.54	136	172	819.67				
14	Thu	6	0.44			12	40.65	128	185	850.38	13	2	5.38	141	187	896.41				
15	Fri	11	0.70			16	68.03	110	186	858.28	10	1	2.92	120	187	929.23				
16	Sat	13	0.61			7	30.63	203	39	252.19	13		4.22	216	39	287.04				
17	Sun	9	0.93			4	15.68	131	21	124.66	15		5.10	146	21	145.44				
18	Mon	14	0.86			14	64.40	179	174	947.31	15		4.46	194	174	1,016.17				
19	Tue	7	0.24			19	90.54	130	193	866.33	12	2	8.07	142	195	964.94				
20	Wed	14	1.00			11	50.64	130	179	806.99	7	1	2.73	137	180	860.36				
21	Thu	15	0.93			16	64.67	142	172	800.24	15	2	6.20	157	174	871.11				
22	Fri	9	0.62			13	52.46	144	169	841.86	10	2	3.47	154	171	897.79				
23	Sat	17	0.88			10	47.38	268	48	286.82	23		5.95	291	48	340.15				
24	Sun	6	0.25			3	12.90	128	19	108.21	13		4.82	141	19	125.93				
25	Mon	22	0.93			16	90.85	140	187	955.27	4	2	2.55	144	189	1,048.67				
26	Tue	14	2.77			24	113.13	153	201	959.49	18	2	8.57	171	203	1,081.19				
27	Wed	7	0.42			13	62.72	150	173	731.11	12	1	4.30	162	174	798.13				
28	Thu	9	0.55			15	58.96	156	181	831.17	13		6.10	169	181	896.23				
29	Fri	9	0.30			13	60.01	154	162	809.58	6	2	2.12	160	164	871.71				
30	Sat	24	1.43			9	43.29	212	51	279.05	29		8.06	241	51	330.40				
31	Sun	11	0.44			4	12.67	206	16	121.66	25		5.11	231	16	139.44				
TOTAL		382	23.30	0	0.00	365	1,668.97	4,801	4,012	19,943.72	400	26	144.43	5,201	4,038	21,757.12				
VERAGE		12.73	0.78	#DIV/0!	#DIV/0!	12.17	55.63	160.03	133.73	664.79	13.33	1.53	4.81	167.77	130.26	701.84				

METRO CENTRAL STATION OUTGOING WASTEFLOWS - JANUARY 2010 (Finalized)

Date	TOTAL		OWS		RIVERBEND		AVERAGE	TOTAL	Date
	Loads	Tons	Loads	Tons	Loads	Tons	Load	Overloads	
1-Jan	0	0.000							1-Jan
2	0	0.000							2
3	0	0.000							3
4	31	1,032.090	31	1,032.090			33.29	1	4
5	38	1,270.430	38	1,270.430			33.43	0	5
6	35	1,151.090	35	1,151.090			32.89	0	6
7	40	1,339.850	40	1,339.850			33.50	0	7
8	34	1,152.680	34	1,152.680			33.90	0	8
9	0	0.000							9
10	0	0.000							10
11	33	1,122.770	33	1,122.770			34.02	0	11
12	32	1,083.970	32	1,083.970			33.87	1	12
13	24	810.910	24	810.910			33.79	0	13
14	24	820.830	24	820.830			34.20	0	14
15	27	913.730	27	913.730			33.84	3	15
16	0	0.000							16
17	0	0.000							17
18	34	1,153.780	34	1,153.780			33.93	0	18
19	26	882.730	26	882.730			33.95	0	19
20	26	880.110	26	880.110			33.85	0	20
21	24	816.110	24	816.110			34.00	0	21
22	22	744.970	22	744.970			33.86	1	22
23	0	0.000							23
24	0	0.000							24
25	29	976.620	29	976.620			33.68	1	25
26	30	1,018.490	30	1,018.490			33.95	1	26
27	28	936.620	28	936.620			33.45	2	27
28	27	917.540	27	917.540			33.98	0	28
29	22	745.360	22	745.360			33.88	1	29
30	0	0.000							30
31	0	0.000							31
Totals:	586	19,770.680	586	19,770.680	0	0.000	33.74	11	

Note 1: Average is for OWS & Riverbend Compacted Loads only.

INCOMING DRY MSW - February 2010

METRO CENTRAL

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	138.83	138.83	0.00
CAR W/ 1 AXLE TRAILER	73.45	73.45	0.00
FLAT BED	214.68	214.68	0.00
LOOSE DROP BOX	1380.53	1380.53	0.00
MISC (UTIL/STEP VAN)	557.43	557.43	0.00
PICKUP & 1 AXLE TRAILER	506.99	506.99	0.00
PICKUP W/ 2 AXLE OR GREATER	99.41	99.41	0.00
STANDARD PICKUP	741.03	741.03	0.00
TOTALS	3,712.35	3,712.35	0.00

METRO SOUTH

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	201.21	201.21	0.00
CAR W/ 1 AXLE TRAILER	69.56	69.56	0.00
FLAT BED	326.32	326.32	0.00
LOOSE DROP BOX	1429.34	1429.34	0.00
MISC (UTIL/STEP VAN)	1069.65	1069.65	0.00
PICKUP & 1 AXLE TRAILER	1397.67	1397.67	0.00
PICKUP W/ 2 AXLE OR GREATER	339.04	339.04	0.00
STANDARD PICKUP	1238.52	1238.52	0.00
TOTALS	6,071.31	6,071.31	0.00

COMBINED

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	340.04	340.04	0.00
CAR W/ 1 AXLE TRAILER	143.01	143.01	0.00
FLAT BED	541.00	541.00	0.00
LOOSE DROP BOX	2,809.87	2,809.87	0.00
MISC (UTIL/STEP VAN)	1,627.08	1,627.08	0.00
PICKUP & 1 AXLE TRAILER	1,904.66	1,904.66	0.00
PICKUP W/ 2 AXLE OR GREATER	438.45	438.45	0.00
STANDARD PICKUP	1,979.55	1,979.55	0.00
TOTALS	9,783.66	9,783.66	0.00

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METRO CENTRAL MONTHLY INBOUND TONNAGE REPORT

Feb-10

TOTAL INBOUND TRANSACTIONS

9,563

TOTAL INBOUND TO 18,952.57

DATE	DAY	SOURCE SEPERATED		COMMERCIAL CURBSIDE		ORGANICS		MSW			YARD DEBRIS			TOTAL TRANS		TOTAL REVENUE TONNAGE
		TRANS	ONS (EST)	TRANS	TONS	TRANS	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONS	CASH	CREDIT	
1	Mon	8	0.32			14	69.40	140	188	958.36	13		5.52	153	188	1,033.28
2	Tue	7	0.32			21	103.96	156	171	880.67	18	4	10.14	174	175	994.77
3	Wed	11	0.55			15	63.40	136	171	770.71	8	3	5.84	144	174	839.95
4	Thu	9	0.54			15	53.07	172	181	873.73	16	1	5.40	188	182	932.20
5	Fri	6	0.40			12	58.29	162	175	861.84	14		5.24	176	175	925.37
6	Sat	13	0.75			9	43.60	288	44	282.33	35		7.96	323	44	333.89
7	Sun	7	0.20			2	12.65	149	18	119.28	33		12.08	182	18	144.01
8	Mon	10	0.34			14	75.95	152	197	1,011.72	16		4.74	168	197	1,092.41
9	Tue	16	1.32			19	89.78	164	183	878.63	15	1	5.44	179	184	973.85
10	Wed	7	0.47			12	61.43	160	183	770.42	9	2	7.04	169	185	838.89
11	Thu	9	0.57			13	58.50	120	177	796.10	9		2.80	129	177	857.40
12	Fri	7	0.24			14	63.17	135	177	846.30	12	1	4.15	147	178	913.62
13	Sat	13	1.17			9	40.94	228	45	288.75	32		12.35	260	45	342.04
14	Sun	7	0.23			4	17.13	129	17	101.74	12		3.55	141	17	122.42
15	Mon	15	0.67			13	62.62	158	170	932.30	15	2	4.27	173	172	999.19
16	Tue	8	0.73			17	95.51	170	183	889.16	21	2	7.71	191	185	992.38
17	Wed	12	0.68			10	43.92	155	165	765.88	27	2	8.51	182	167	818.31
18	Thu	13	1.35			16	67.93	144	180	781.70	18		8.76	162	180	858.39
19	Fri	12	1.07			15	80.40	168	163	816.35	17	1	5.84	185	164	902.59
20	Sat	16	1.03			8	37.85	319	48	301.23	57		11.43	376	48	350.51
21	Sun	12	0.34			2	14.01	236	17	128.88	69		15.93	305	17	158.82
22	Mon	11	0.66			12	52.16	188	188	949.86	22	1	5.71	210	189	1,007.73
23	Tue	10	0.64			19	89.58	135	199	926.79	7	4	2.91	142	203	1,019.28
24	Wed	6	0.43			15	80.96	131	162	695.30	10		3.09	141	162	779.35
25	Thu	11	0.67			17	77.46	143	177	810.17	14		3.53	157	177	891.16
26	Fri	8	0.59			12	56.56	137	169	858.89	8	2	2.35	145	171	917.80
27	Sat	21	1.57			10	51.54	257	48	304.55	42	1	12.35	299	49	368.44
28	Sun	9	0.52			3	12.70	190	19	138.29	36		9.63	226	19	160.62
29														0	0	0.00
30														0	0	0.00
31														0	0	0.00
TOTAL		294	18.37	0	0.00	342	1,634.47	4,822	3,815	18,739.93	605	27	194.27	5,427	3,842	20,568.67
AVERAGE		10.50	0.66	#DIV/0!	#DIV/0!	12.21	58.37	172.21	136.25	669.28	21.61	1.93	6.94	175.06	123.94	663.51

METRO CENTRAL STATION OUTGOING WASTEFLOWS - FEBRUARY 2010 (Finalized)

Date	TOTAL		OWS		RIVERBEND		AVERAGE	TOTAL	Date
	Loads	Tons	Loads	Tons	Loads	Tons	Load	Overloads	
1-Feb	33	1,118.760	33	1,118.760			33.90	0	1-Feb
2	29	982.110	29	982.110			33.87	0	2
3	24	816.740	24	816.740			34.03	0	3
4	26	881.850	26	881.850			33.92	0	4
5	22	748.950	22	748.950			34.04	0	5
6	0	0.000							6
7	0	0.000							7
8	35	1,188.630	35	1,188.630			33.96	0	8
9	28	949.450	28	949.450			33.91	0	9
10	25	846.060	25	846.060			33.84	0	10
11	24	817.470	24	817.470			34.06	0	11
12	21	714.810	21	714.810			34.04	0	12
13	0	0.000							13
14	0	0.000							14
15	34	1,155.140	34	1,155.140			33.97	0	15
16	29	986.050	29	986.050			34.00	0	16
17	23	771.390	23	771.390			33.54	0	17
18	23	777.510	23	777.510			33.80	0	18
19	23	782.790	23	782.790			34.03	0	19
20	0	0.000							20
21	0	0.000							21
22	30	1,018.310	30	1,018.310			33.94	0	22
23	29	982.830	29	982.830			33.89	0	23
24	25	844.360	25	844.360			33.77	0	24
25	24	810.300	24	810.300			33.76	0	25
26	23	780.800	23	780.800			33.95	0	26
27	0	0.000							27
28	0	0.000							28
29	0	0.000							29
30	0	0.000							30
31	0	0.000							31
Totals:	530	17,974.310	530	17,974.310	0	0.000	33.91	0	

Note 1: Average is for OWS & Riverbend Compacted Loads only.

METRO CENTRAL MONTHLY RECYCLING REPORT

Feb-10

RECYCLING TONS						2,904.91		TOTAL RECOVERED TONS						2,907.08						
RE-USE TONS						2.17														
DATE	DAY	Tires Recycling	Ferrous Metal	Organics	Foam Pad	Yard Debris	Cardboard	Non-Ferrous Metal	Glass	Plastic Jugs	Hog Fuel	Oil and Antifreeze	Batteries							
1	Mon		6.47	72.62																
2	Tue		7.55	95.43								1.92								
3	Wed			98.12																
4	Thu		6.30	39.61	.87						30.86									
5	Fri		3.28	76.61																
6	Sat			24.28																
7	Sun																			
8	Mon		10.48	70.88							58.89									
9	Tue		7.89	99.74	.31			.38			62.35		1.51							
10	Wed			95.09																
11	Thu		6.80	47.86							57.72									
12	Fri		3.21	70.02							27.40									
13	Sat			25.12																
14	Sun																			
15	Mon		12.91	73.78							31.78									
16	Tue		7.19	97.10							57.09	2.74								
17	Wed			71.82			26.49				87.03									
18	Thu		12.43	49.69	.91						62.90									
19	Fri		6.38	44.15																
20	Sat																			
21	Sun																			
22	Mon		6.52	55.60				1.41												
23	Tue		2.64	93.23							91.67									
24	Wed			93.41							62.05									
25	Thu		9.30	48.65			22.69				57.82									
26	Fri	9.65	13.16	90.18			6.88	2.35	10.31		28.87									
27	Sat			45.78	.68															
28	Sun																			
South Subtraction																				
TOTALS		9.65	122.51	1,578.77	2.77	.00	56.06	4.14	10.31	.00	716.43	4.66	1.51							

METRO CENTRAL MONTHLY RECYCLING REPORT

Feb-10

DATE	DAY	Oil Filters	Mixed Waste Paper	To Central Millwood	Film Plastics	Rubble	Electronics	Hard Plastics	To-Central Hard Plastics	To-Central Film Plastics	To-Central Compressors	Propane - lbs	Daily Total
1	Mon												79.09
2	Tue						6.68						111.58
3	Wed												98.12
4	Thu												77.64
5	Fri												79.89
6	Sat												24.28
7	Sun												0.00
8	Mon												140.25
9	Tue												172.18
10	Wed						6.24						101.33
11	Thu		.61										112.99
12	Fri												100.63
13	Sat												25.12
14	Sun												0.00
15	Mon												118.47
16	Tue						2.89						167.01
17	Wed					27.86							213.20
18	Thu					75.52							201.45
19	Fri					52.89							103.42
20	Sat												0.00
21	Sun												0.00
22	Mon					50.93							114.46
23	Tue					73.77	2.88						264.19
24	Wed					47.48							202.94
25	Thu		7.49		1.17	20.08	2.87						170.07
26	Fri				.66	15.83		2.25					180.14
27	Sat												46.46
28	Sun												0.00
South Subtraction													0.00
TOTALS		.00	8.10	.00	1.83	364.36	21.56	2.25	.00	.00	.00	.00	2,904.91

METRO CENTRALH RE-USABLE REPORT

February 2010

DATE	DAY	Carpet	Textiles - Recycling	Community Recycling	Cracked Pots	Propane-5's	Rebuilding Center	SVDP-Reuse	Plastic Nursery Pots	Daily Total
1	Mon									.00
2	Tue									.00
3	Wed									.00
4	Thu					.54				.54
5	Fri									.00
6	Sat									.00
7	Sun									.00
8	Mon									.00
9	Tue									.00
10	Wed						.62			.62
11	Thu									.00
12	Fri									.00
13	Sat									.00
14	Sun									.00
15	Mon									.00
16	Tue									.00
17	Wed									.00
18	Thu									.00
19	Fri									.00
20	Sat									.00
21	Sun									.00
22	Mon									.00
23	Tue									.00
24	Wed									.00
25	Thu					.45	.56			1.01
26	Fri									.00
27	Sat									.00
28	Sun									.00
TOTALS		0.00	0.00	0.00	0.00	0.99	1.18	0.00	0.00	2.17

INCOMING DRY MSW - March 2010

METRO CENTRAL

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	134.70	134.70	0.00
CAR W/ 1 AXLE TRAILER	120.37	120.37	0.00
FLAT BED	248.38	248.38	0.00
LOOSE DROP BOX	1429.10	1429.10	0.00
MISC (UTIL/STEP VAN)	628.65	628.65	0.00
PICKUP & 1 AXLE TRAILER	459.76	459.76	0.00
PICKUP W/ 2 AXLE OR GREATER	236.49	236.49	0.00
STANDARD PICKUP	850.13	850.13	0.00
TOTALS	4,107.58	4,107.58	0.00

METRO SOUTH

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	206.24	206.24	0.00
CAR W/ 1 AXLE TRAILER	215.09	215.09	0.00
FLAT BED	458.94	458.94	0.00
LOOSE DROP BOX	1616.97	1616.97	0.00
MISC (UTIL/STEP VAN)	986.83	986.83	0.00
PICKUP & 1 AXLE TRAILER	1169.27	1169.27	0.00
PICKUP W/ 2 AXLE OR GREATER	785.36	785.36	0.00
STANDARD PICKUP	1470.36	1470.36	0.00
TOTALS	6,909.06	6,909.06	0.00

COMBINED

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	340.94	340.94	0.00
CAR W/ 1 AXLE TRAILER	335.46	335.46	0.00
FLAT BED	707.32	707.32	0.00
LOOSE DROP BOX	3,046.07	3,046.07	0.00
MISC (UTIL/STEP VAN)	1,615.48	1,615.48	0.00
PICKUP & 1 AXLE TRAILER	1,629.03	1,629.03	0.00
PICKUP W/ 2 AXLE OR GREATER	1,021.85	1,021.85	0.00
STANDARD PICKUP	2,320.49	2,320.49	0.00
TOTALS	11,016.64	11,016.64	0.00

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METRO CENTRAL MONTHLY INBOUND TONNAGE REPORT

Mar-10

TOTAL INBOUND TRANSACTIONS

10,941

TOTAL INBOUND TOI 21,036.41

DATE	DAY	SOURCE SEPERATED		COMMERCIAL CURBSIDE		ORGANICS		MSW			YARD DEBRIS			TOTAL TRANS		TOTAL REVENUE
		TRANS	ONS (EST)	TRANS	TONS	TRANS	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONNAGE
1	Mon	18	0.89			14	74.76	182	187	949.10	28	3	10.32	210	190	1,034.18
2	Tue	12	0.48			16	73.09	169	205	970.27	13	1	5.80	182	206	1,049.16
3	Wed	8	0.55			17	76.01	163	157	752.87	17	2	7.55	180	159	836.43
4	Thu	13	0.76			18	76.76	162	192	881.02	14		2.58	176	192	960.36
5	Fri	9	0.59			12	61.15	143	169	833.44	14		6.67	157	169	901.26
6	Sat	24	7.47			8	40.69	294	49	316.80	68	1	19.49	362	50	376.98
7	Sun	8	0.43			2	11.82	226	14	140.52	73		18.44	299	14	170.78
8	Mon	10	0.68			11	50.01	165	177	884.99	25	2	12.14	190	179	947.14
9	Tue	4	0.49			17	79.88	127	203	910.99	9	1	3.99	136	204	994.86
10	Wed	9	0.51			11	51.99	120	161	689.55	8	1	6.64	128	162	748.18
11	Thu	9	0.44			18	73.59	126	176	793.22	11		5.96	137	176	872.77
12	Fri	8	0.34			13	67.35	130	155	809.14	15	1	5.49	145	156	881.98
13	Sat	17	0.57			8	39.98	237	40	261.24	41		10.49	278	40	311.71
14	Sun	10	0.51			3	14.55	185	14	122.34	34		9.59	219	14	146.48
15	Mon	13	0.70			14	70.25	188	165	881.50	22		7.13	210	165	958.88
16	Tue	8	0.75			17	77.20	151	161	841.81	10	1	1.71	161	162	920.72
17	Wed	8	0.39			12	60.26	165	157	693.79	12	2	6.37	177	159	760.42
18	Thu	13	0.73			16	69.73	143	160	737.28	27	1	7.03	170	161	814.04
19	Fri	9	0.60			14	70.51	191	164	814.80	23	2	9.92	214	166	895.23
20	Sat	18	1.25			7	32.88	333	48	303.70	52		13.78	385	48	350.36
21	Sun	5	0.23			1	3.47	222	15	138.68	35	0	11.56	257	15	153.71
22	Mon	11	0.77			13	58.57	194	179	919.23	23	1	8.57	217	180	986.37
23	Tue	6	0.27			16	74.51	187	180	847.17	13	2	6.86	200	182	928.54
24	Wed	9	0.34			14	67.21	186	154	694.71	28	3	9.23	214	157	771.15
25	Thu	8	0.88			18	79.41	145	175	789.96	11	1	3.89	156	176	873.26
26	Fri	11	0.44			11	54.08	146	174	839.58	21	0	5.07	167	174	898.73
27	Sat	20	1.17			7	28.33	313	47	269.18	57		14.60	370	47	312.11
28	Sun	11	0.45			3	12.79	223	10	106.21	33		9.11	256	10	128.11
29	Mon	6	0.25			16	87.37	135	175	922.82	6		1.76	141	175	1,011.95
30	Tue	14	0.77			18	85.30	110	175	873.01	4		0.98	114	175	959.29
31	Wed	9	0.57			15	69.91	135	182	771.29	14	1	8.21	149	183	849.41
TOTAL		338	25.27	0	0.00	380	1,793.41	5,596	4,220	20,760.21	761	26	250.93	6,357	4,246	22,804.55
AVERAGE		10.90	0.82	# DIV/0!	# DIV/0!	12.26	57.85	180.52	136.13	669.68	24.55	1.37	8.09	205.06	136.97	735.63

METRO CENTRAL STATION OUTGOING WASTEFLOWS - MARCH 2010 (Finalized)

Date	TOTAL		OWS		RIVERBEND		AVERAGE	TOTAL	Date
	Loads	Tons	Loads	Tons	Loads	Tons	Load	Overloads	
1-Mar	32	1,086.090	32	1,086.090			33.94	0	1-Mar
2	31	1,052.590	31	1,052.590			33.95	0	2
3	25	845.270	25	845.270			33.81	0	3
4	23	774.090	23	774.090			33.66	1	4
5	25	844.140	25	844.140			33.77	0	5
6	0	0.000							6
7	0	0.000							7
8	28	951.710	28	951.710			33.99	0	8
9	26	879.450	26	879.450			33.83	0	9
10	27	912.910	27	912.910			33.81	0	10
11	25	844.430	25	844.430			33.78	0	11
12	24	817.170	24	817.170			34.05	0	12
13	0	0.000							13
14	0	0.000							14
15	26	886.930	26	886.930			34.11	2	15
16	27	915.600	27	915.600			33.91	0	16
17	26	886.940	26	886.940			34.11	1	17
18	20	681.820	20	681.820			34.09	0	18
19	23	773.400	23	773.400			33.63	1	19
20	0	0.000							20
21	0	0.000							21
22	26	882.340	26	882.340			33.94	0	22
23	28	942.230	28	942.230			33.65	1	23
24	27	905.700	27	905.700			33.54	0	24
25	22	742.470	22	742.470			33.75	0	25
26	26	887.760	26	887.760			34.14	0	26
27	7	235.450	7	235.450			33.64	0	27
28	0	0.000							28
29	29	994.070	29	994.070			34.28	0	29
30	26	885.400	26	885.400			34.05	0	30
31	27	914.970	27	914.970			33.89	0	31
Totals:	606	20,542.930	606	20,542.930	0	0.000	33.90	6	

Note 1: Average is for OWS & Riverbend Compacted Loads only.

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METRO CENTRAL MONTHLY RECYCLING REPORT

Mar-10

RECYCLING TONS					3,283.30	TOTAL RECOVERED TONS								3,286.43
RE-USE TONS					3.13									
DATE	DAY	Tires Recycling	Ferrous Metal	Organics	Foam Pad	Yard Debris	Cardboard	Non-Ferrous Metal	Glass	Plastic Jugs	Hog Fuel	Oil and Antifreeze	Batteries	
1	Mon		10.03	70.02								1.49	1.75	
2	Tue		5.56	71.85										
3	Wed			97.01							59.63			
4	Thu		13.59	95.66							58.10			
5	Fri		7.94	72.38	1.23		25.90							
6	Sat			24.97										
7	Sun							.78						
8	Mon		14.03	71.58										
9	Tue		9.80	97.46							61.88			
10	Wed			73.10							58.53			
11	Thu		5.56	48.91	.48						28.50			
12	Fri		13.05	75.10							57.25			
13	Sat													
14	Sun													
15	Mon		3.62	44.42							29.04			
16	Tue		14.52	70.49							29.15			
17	Wed			71.68							90.84	3.65		
18	Thu		12.09	74.88	1.02						29.93			
19	Fri		7.31	93.32							30.58			
20	Sat			46.47										
21	Sun													
22	Mon		10.36	74.98							28.52			
23	Tue	8.21	9.41	87.46							28.55			
24	Wed			43.14	.92						62.13			
25	Thu		9.32	23.75							57.50			
26	Fri	8.32	6.96	72.22							59.76			
27	Sat			74.28										
28	Sun									1.71				
29	Mon		13.73	71.64				3.12	6.69		64.12			
30	Tue		9.72	94.21			24.07		5.96			2.42		
31	Wed	1.14	12.10	94.63	.47	18.87	21.71	2.86	.57				2.70	
South Subtraction														
TOTALS		17.67	188.70	1,835.61	4.12	18.87	71.68	6.76	13.22	1.71	834.01	7.56	4.45	

METRO CENTRAL MONTHLY RECYCLING REPORT

Mar-10

DATE	DAY	Oil Filters	Mixed Waste Paper	To Central Millwood	Film Plastics	Rubble	Electronics	Hard Plastics	To-Central Hard Plastics	To-Central Film Plastics	To-Central Compressors	Propane - lbs	Daily Total
1	Mon					8.85							92.14
2	Tue												77.41
3	Wed						5.77						162.41
4	Thu												167.35
5	Fri												107.45
6	Sat												24.97
7	Sun												0.78
8	Mon					15.30							100.91
9	Tue					42.03	3.21					0.40	214.78
10	Wed					32.84							164.47
11	Thu					52.99							136.44
12	Fri					22.66							168.06
13	Sat												0.00
14	Sun												0.00
15	Mon		.59				2.77						80.44
16	Tue					30.49	2.99						147.64
17	Wed					5.69							171.86
18	Thu												117.92
19	Fri												131.21
20	Sat												46.47
21	Sun												0.00
22	Mon												113.86
23	Tue		16.40										150.03
24	Wed					7.83	6.56						120.58
25	Thu												90.57
26	Fri												147.26
27	Sat		1.35										75.63
28	Sun				.74								2.45
29	Mon												159.30
30	Tue		3.57				5.48						145.43
31	Wed		2.28			6.05		2.10					165.48
South Subtraction													0.00
TOTALS		0.00	24.19	0.00	0.74	224.73	26.78	2.10	0.00	0.00	0.00	0.40	3,283.30

METRO CENTRAL RE-USABLE REPORT

March 10

DATE	DAY	Carpet	Textiles - Recycling	Community Recycling	Cracked Pots	Propane-5's	Rebuilding Center	SVDP-Reuse	Plastic Nursery Pots	Daily Total
1	Mon									.00
2	Tue									.00
3	Wed									.00
4	Thu									.00
5	Fri									.00
6	Sat									.00
7	Sun									.00
8	Mon									.00
9	Tue									.00
10	Wed									.00
11	Thu									.00
12	Fri									.00
13	Sat									.00
14	Sun									.00
15	Mon									.00
16	Tue									.00
17	Wed									.00
18	Thu									.00
19	Fri									.00
20	Sat									.00
21	Sun									.00
22	Mon									.00
23	Tue									.00
24	Wed									.00
25	Thu									.00
26	Fri									.00
27	Sat									.00
28	Sun									.00
29	Mon							2.17		2.17
30	Tue					.96				.96
31	Wed									.00
TOTALS		0.00	0.00	0.00	0.00	0.96	0.00	2.17	0.00	3.13

Site Incident Log

REM 2010 – Metro Central

Keep Posted

Transfer Services of Oregon, LLC

- ✓ Scale house monitors channels 1 and 2 at each site and ensures that proper notifications are made for each incident. Scalehouse notifies EC's on site, and contacts 9-1-1, Metro's Management Support Team (MST) and others as requested.
- ✓ Use this log to note details about every potential incident, accident, injury, near miss, false alarm etc. that occurs on site.

Date	Day	Time	Description of Initial Situation	Name of AWI IC	Name of HWF EC	Name of Scale-house EC	Was the site Evacuated ?	Was 9-1-1 called?	Any injuries ?	Comments?
3/10	Wed	2:30p	Walsh trasport trailer airfoil damaged possiblyduring load out	Mike C						Trailer# 431