Appendix J

Monitoring Well Development Logs

Clouds 65°F

11/3/99 DAILY LOG

0700 - 0800 LMS + R-W check remaining locations for accessibility. Need to move SB @ S. Butler into gravel more. Need to bring eastern perm. mon well outside fence

0830 - 0930 LMS + R. Hart meet w/ M. Rosenthal RE: water lines @ TW on west side. M. Rosenthal okay's 2 westernmost. Need to ck to see if can peel back fence for 3rd.

0930 LMS + R. Hart finalize SB @ South Butler

~~0900 - 1200 R-W installs shallow~~ mon. well @ 22-32, 0.010". Saturation @ 22' water table @ 25 @ last boring III. OK'd w/ CSK. Will be screening the upper zone of high PID.

- ~~LMS + R-W to start on East Side of plant @ TW point. Needed to get hot work permits~~ + finish clearance

1140 LMS finalizes ~~TW~~

~~1200~~ LMS develops MW-1000 - ~~1 hr 40 mins~~

1215 LMS calls CSK RE: TW - far east check on "direct-push" + drilling w/ water. Expect to see ash + slag. Till should be @ ~15'. Just screen the gw table for sampling. No need to conform till.

~~11/3/99 (Wed) Well Development~~

1200 Start: water @ 12 Nom END: 1400

DTW (TIC) ~~12.18 Nov~~ 28.12'

DTBottom (TIC) ~110' (soft).

Equip: Black HD tubing (R-W) + foot valve, generator + WL Probe + Waterra pump (Pitts-BBL).

Method: Starting @ bottom of well + moving in 2' intervals, screen is surged using foot valve + pumping out silty water until relatively clear of SILT. Monitoring well goes dry before clearing. Turbidity moderate - Light Brown / well Volume:

Volume of water removed: 15 gal dry @ 1233

Water @ 68' TIC @ 1300. Surge 6-8' of screen.

Removed 10 gallons 1305-1315

Dry @ 1315.

1324-1333 Removed 4 gallons 4-6' of screen

1335-1340 Removed 4 gallons 2-4' of screen

Low to moderately turbid - v. lig ht brown

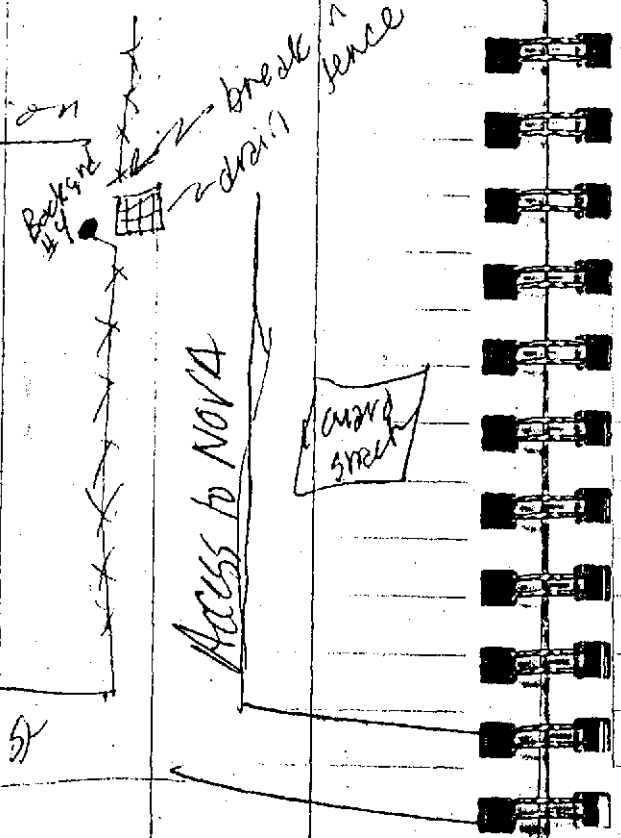
1350 - Purged @ bottom of well screen to remove any settled silts. Removed. 8 gallons Low turbidity. V. pale brown. Dry @ 1400.

Background #4 - Nova Chem

1645: time

Description: 2.0'-15' ~~dark brown~~ M-brown f-m SAND. 0-2' Dark brown organic rich f-SANDs & m-SAND interbedded 15-17' BGS sampled for Metals ~~At~~ Light brown horizontally stratified f-SAND, trace Silt, trace Fe-staining ~~at~~ horizontally, wet, firm.

Location



11/11/99 Well Development

P-W well development 8:30-1500. Equip: Waterra Pump w/dedicated disposable HDPE tubing, generator, bailers.

Well ID	Gallons Removed	color/visual turbidity	Duration
MW-99S	5 gall	Light brown/moderate	1.5 hrs
MW-101S	30 gall	Light brown low turbidity	1.5 hrs
MW-104S	6 gall	Moderately turbid m-brown	1 hr
MW-103S	30 gall	Low ~50 NTU v. light brown	1.5 hrs
MW-105S	15 gall	High turbidity red brown	1 hrs went dry 3 times
MW-102D	60 gal	V. low turbidity ~20 NTU v. light brown	3.5 hrs.

Appendix K

Ground-Water Sampling Logs

K-1 November 1999
K-2 April 2000

K-1 November 1999

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-89D
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/18/99 Time In / Out 1315 / 1340
Weather Sun 50°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	76.3	
Screen Interval ~~Depth~~	10'	
Water Table Depth	37.05	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1135
Sample ID MW-89D
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	39.25
Volume of Water in Well	6.4
Minutes of Pumping	~4

EVACUATION INFORMATION

Volume of water removed from well ~~20 gall~~ 8 gall (DY)
Did well go dry? (Y) N Dry @ 8 gall.
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Evacuation Method: Bailer ( ) Pump (x)
Pump Type: Gronfose Pump ✓

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1133	—	8	—	13.91	7.25	1.729	10.6	—	—
Final 1137	—	9	—	14.20	7.17	1.770	15.2	—	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge, clear, colorless, odorless, Final purge - clear color less ~~slight~~ odor ~~less~~ (DY)

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-905
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm)

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/16/99 Time In / Out 0810 / 0830
Weather 35°, CLOUDY - COLD & WINDY

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	51.20	
Screen Interval Depth	10'	
Water Table Depth	37.15	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 0825
Sample ID MW-905
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	14.05
Volume of Water in Well	2.3 GAL
Minutes of Pumping	10

EVACUATION INFORMATION

Volume of water removed from well 8.0 gal

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: ~~Bronfase Pump~~ GRONFOSE Pump

Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	SP.Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
Final 0830	—	8.0	—	9.5°C	6.98	2.080	34	—	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS INITIAL PURGE, LIGHT PALE BROWN, LOW TURBITITY, ODOR ; FINAL PURGE WAS CLEAR WITH NO ODOR.

SAMPLE DESTINATION

Laboratory: Savana Laboratory , 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-101S
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/17/99 **Time In / Out** 0910 - 9:50
Weather Sun, Wind, 30°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	39.35	
Screen Interval ~~Depth~~	10'	
Water Table Depth	31.48	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 0930
Sample ID MW-101S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	7.87
Volume of Water in Well	1.39 gal
Minutes of Pumping	~10

EVACUATION INFORMATION

Volume of water removed from well 5 gal

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: Gronfose Pump

Water Quality Meter Type(s) / Serial Numbers: YSI / 99J1141 6820 Model Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
Final 0930	—	4.5	—	12.77	7.14	1.063	44.5	—	—
0935	—	5.0		13.77	7.04	1.235	16.9	—	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS INITIAL PURGE IS LIGHT BROWN, LOW TO MODERATE TURBIDITY, NO ODOR. FINAL PURGE CLEAR, COLORLESS, ODORLESS

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-100D
Key No. 2537
PID Background (ppm) –
Well Headspace (ppm) –

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/12/99 Time In / Out 9:40 / 10:50
Weather Sun, Wind, 30°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	–	
Well Diameter	2"	
Well Depth	112.0"	
Screen Interval Depth	10'	
Water Table Depth	31.76	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time ~~9:45~~ 10:32
Sample ID MW-100D
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	80.24
Volume of Water in Well	13.0 gal
Minutes of Pumping	10 min

DUPLICATE: GW-DUP-2

EVACUATION INFORMATION

Volume of water removed from well 16.0 GAL ~~13.0~~ gal CR

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: Gronfose Pump

Water Quality Meter Type(s) / Serial Numbers: YSI / 995/141 S/N 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	SP Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:30	–	16.0		12.16	7.92	0.402	4.5	~~8.25~~ CR	
10:35	–	16.0		11.78	7.84	0.419	1.1		
~~–~~	~~–~~	~~11.01~~			~~7.97~~	~~0.364~~	~~3.1~~	~~–~~	~~–~~
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge was light brown, low turbidity, no odor. Final purge was clear, no turbidity, no odor.

- Well went dry at 10:18. Wait to recover to sample (Depth to water = 80.0' at 10:25
- Took duplicate – GW-DUP-2

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-102D
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/17/99 **Time In / Out** 1115 / 1155
Weather Sun, Wind, 30°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	92.3	
Screen Interval Depth	10'	
Water Table Depth	82.91	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1151
Sample ID MW-102D
Sampled for:
(L) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

MS/MSD for VOCs taken here

WELL WATER INFORMATION

Length of Water Column	59.39
Volume of Water in Well	9.7921
Minutes of Pumping	~8

EVACUATION INFORMATION

Volume of water removed from well 33 gal

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: Gronfose Pump

Water Quality Meter Type(s) / Serial Numbers: YSI - 99J1141 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
11:45				13.15	6.91	1.346	1.2	—	—
11:53				13.12	6.91	1.665	0.1	—	—
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS INITIAL PURGE - LOW TURBIDITY, LIGHT BROWN NO ODOR. FINAL PURGE IS CLEAR, COLORLESS, ~~[illegible]~~ SLIGHT ODOR (CR)

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-103S
Key No. 2537
PID Background (ppm) –
Well Headspace (ppm) –

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/12/99 **Time In / Out** 1155 - 1228
Weather SUN, WIND - 35°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	–	
Well Diameter	2"	
Well Depth	~~30.0'~~ 33.91	
Screen Interval Depth	10'	
Water Table Depth	30.0'	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 12:25
Sample ID MW-103S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	3.91'
Volume of Water in Well	.637 GAL
Minutes of Pumping	8

EVACUATION INFORMATION

Volume of water removed from well 4 GAL

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: Gronfose Pump

Water Quality Meter Type(s) / Serial Numbers: YSI - 993141 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
12:20				13.98	6.60	1.22	11.2	–	–
12:28				13.78	6.59	1.19	27.3	–	–
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS INITIAL PURGE WAS LIGHT BROWN, NO ODOR, LOW TURBIDITY - FINAL PURGE WAS CLEAR, ODORLESS, & NO TURBIDITY

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW 104S
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/10/99 **Time In / Out** 1350 – ~~1424~~ 1424
Weather 35° ~~Sunny~~ - COLD + WINDY Sunny

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade		
Well Diameter	2"	
Well Depth	24.00	
Screen Interval Depth	10'	
Water Table Depth	18.51	
Intake Depth of pump/tubing	22.00	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1400
Sample ID MW-104S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	5.19
Volume of Water in Well	.845 GAL.
Minutes of Pumping	~8

EVACUATION INFORMATION

Volume of water removed from well 2.5 GAL ~~4.22~~ CR

Did well go dry? (Y) N

Evacuation Method: Bailer ( ) Pump (x)

Pump Type: ~~Cromfose~~ PERISTALIC Pump CR

Water Quality Meter Type(s) / Serial Numbers: YSI / 99J1141 CR 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1358	—	2.5	—	16.81	7.35	0.751	545.7	—	—
1402	—	2.5	—	17.71	7.29	0.746	512.3	—	—
Final ~~CR~~ CR	—	~~CR~~ CR							

MISCELLANEOUS OBSERVATIONS/PROBLEMS LIGHT BROWN, NO ODOR – INITIAL PURGE – HIGH TURB. DRY → SAME IN FINAL PURGE.

SAMPLE DESTINATION

Laboratory: Savana Laboratory , 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-82S
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/17/99 Time In / Out 1433 - 1535
Weather SUNNY COLD 30°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	21.50'	
Screen Interval Depth	10'	
Water Table Depth	7.61	
Intake Depth of pump/tubing	—	

Redevelop? (Y) N
Rudimentarily while purging

Pump Start Time
Pump Stop Time
Sample Time 1525
Sample ID MW-82S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	13.89
Volume of Water in Well	2.26 GAL
Minutes of Pumping	~7

EVACUATION INFORMATION

Volume of water removed from well 7.5 gal
Did well go dry? Y (N)
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Grentose~~ PARASTALTIC Pump

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1523	—	7.5	—	11.64	6.68	1.298	14.3	~~4.85~~	—
Final 1528	—	7.5	—	12.32	6.70	1.309	12.2	—	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - sandy, high turbidity, strong odor, Final purge clear, colorless, strong odor

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-81D
Key No. 2537
PID Background (ppm) –
Well Headspace (ppm) –

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/12/99 Time In / Out 1540 – 1620
Weather SUNNY, COLD 30°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	–	
Well Diameter	2"	
Well Depth	75.7	
Screen Interval Depth	10.0	
Water Table Depth	5.56	
Intake Depth of pump/tubing	–	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1557
Sample ID MW-81D
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	70.14
Volume of Water in Well	11.43 gal
Minutes of Pumping	~10

EVACUATION INFORMATION

Volume of water removed from well 35 gal

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: ~~Grantose~~ Pump Grundfos

Water Quality Meter Type(s) / Serial Numbers: YSI 6820 sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1555	—			11.75	7.62	0.559	4.2	—	—
Final 1600	—			12.05	7.67	0.540	2.8	—	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - brown moderately turbid, no odor, Final purge - clear, colorless, odorless.

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-80S
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/18/99 **Time In / Out** 0920 / 0940
Weather SUNNY, COOL 45°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	35.5	
Screen Interval Depth	10'	
Water Table Depth	25.5	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 0930
Sample ID MW-80S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	10.0
Volume of Water in Well	1.63 gal
Minutes of Pumping	~8

EVACUATION INFORMATION

Volume of water removed from well 5.0 gal
Evacuation Method: Bailer ( ) Pump (x)
Did well go dry? Y (N)
Pump Type: Gronfose Pump
Water Quality Meter Type(s) / Serial Numbers: YSI - 99J1141 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	SP.Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0928	—	5.0	25.5	17.25	7.11	0.842	4.7	—	—
0932	—	5.0	25.5	19.28	7.16	0.861	4.79	—	—
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS INITIAL PURGE WAS LIGHT BROWN, ODOR[redacted], & LOW TURBIDITY. FINAL PURGE - ODOR, CLEAR, LOW TURBIDITY.

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-1055
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/18/99 **Time In / Out** 0
Weather SUNNY, COOL 45°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	2"	
Well Depth	21.56	
Screen Interval Depth	10	
Water Table Depth	15.52	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1100
Sample ID

Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify) VPH & EPH

GW-DUP-1 FOR EPH & VPH

MS & MSD TAKEN FOR EPH & VPH

WELL WATER INFORMATION

Length of Water Column	6.08
Volume of Water in Well	1 gal
Minutes of Pumping	~25

EVACUATION INFORMATION

Volume of water removed from well 3.0 plus bottles

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: ~~Cronfors~~ PARASTALTIC Pump

Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1058	—	3.0	15.52	16.40	7.21	0.805	48.3	—	—
1120		3.0	15.52	16.79	7.16	0.836	21.0	—	—
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - High turbidity/red-brown color. Final purge - clear, colorless, odor.

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

SHALLOW

Well No. MW-93B
Key No. 2537
PID Background (ppm) –
Well Headspace (ppm) –

Site Name: Solutia Indian Orchard Plant
Sampling Personnel: Leann Sanders/Christopher Rauber
Date: 11/18/99 Time In / Out: 1430
Weather: Sun 45°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	–	
Well Diameter	2"	
Well Depth	15.25	
Screen Interval Depth	10	
Water Table Depth	5.25	
Intake Depth of pump/tubing	–	

Pump Start Time: 1453 1524
Pump Stop Time: 1513
Sample Time: 1530
Sample ID: MW-93B (Shallow)
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

mg/L
Fe Total 3.6
Fe Ferrous 3.2

Redevelop? Y (N)

WELL WATER INFORMATION

Length of Water Column	10.0
Volume of Water in Well	1.63
Minutes of Pumping	20

EVACUATION INFORMATION

Volume of water removed from well: 10 gall
Evacuation Method: Bailer ( ) Pump (x)
Did well go dry? Y (N)
Pump Type: Peristaltic ~~Gronfose Pump~~
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	± 15% Temp. (Celcius)	± 0.1 pH	± 3% Cond. (mS/cm)	~~± 10~~ 550 Turbidity (NTU)	± 10% DO (mg/l)	± 10 mV ORP (mV)
1455	.500		5.28	17.97	6.53	0.825	140.6	2.78	57.4
1500	0.5		5.28	18.07	6.64	0.952	100.0	3.46	-23.7
1505	0.5		5.28	18.13	6.68	1.003	65.0	3.68	-46.9
1510	0.5		5.28	18.14	6.68	1.001	37.1	6.23	-54.4
1513	0.5		Stop. Seems to be a problem w/ DO – change membrane						
~~1516~~ 1517	0.5		5.28	18.14	6.68	1.017	45.4	0.54	-47.5
1527	0.5		5.28	18.14	6.66	1.004	23.3	0.53	-54.2
1530	0.5		5.28	18.14	6.68	1.014	32.9	0.46	-64.9
1533	0.5		5.28	18.14	6.67	1.012	19.7	0.45	-66.4
1536	0.5		5.28	18.10	6.68	1.025	28.5	0.42	-68.0
Final 1540	0.5		5.28	18.03	6.69	1.014	18.5	0.56	-48.7

MISCELLANEOUS OBSERVATIONS/PROBLEMS: Initial purge – light brown, moderately turbid, no odor. Final purge – clear, colorless, odor ~~[illegible]~~. Odor present

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:
Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-93A
Key No. 25 C20
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/18/99 Time In / Out 1600 /
Weather Sun, 50°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	1"	
Well Depth	24' ~~[illegible]~~	
Screen Interval ~~Depth~~	10'	
Water Table Depth	5.15	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time 1600
Pump Stop Time
Sample Time 1635
Sample ID
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Not AA.
Fe : N/A Too dark.
0.0? It looked clear.

WELL WATER INFORMATION

Length of Water Column	18.85
Volume of Water in Well	3.1 gal
Minutes of Pumping	22

EVACUATION INFORMATION

Volume of water removed from well 10 gal
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Gronfose Pump~~ Peristaltic
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Horiba

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	± 10% Temp. (Celcius)	± 0.1 pH	± 3% Cond. (mS/cm)	<50 Turbidity (NTU)	± 10% DO (mg/l)	± 10 mV ORP (mV)
1615	.500		5.15	17.26	7.66	0.934	326.1	0.38	129.0
1620	.500		5.15	17.43	7.60	0.927	296.1	0.23	139.7
1625	.500		5.15	17.47	7.59	0.909	24.4	0.20	145.6
1628	.500		5.15	17.50	7.60	0.898	30.6	0.19	148.3
1631	.500		5.15	17.48	7.58	0.895	31.2	0.19	150.2
Final 1637	0.5		5.15	17.50	7.60	0.896	26.2	0.25	152.6

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - light, brown, low turbidity, odor, Final — Clear, colorless, odor

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-98D
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/19/99 Time In / Out 1130
Weather Sun 60°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	X	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	47.25	
Screen Interval Depth	10'	
Water Table Depth	6.03	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time 1141
Pump Stop Time 1203
Sample Time 1200
Sample ID MW-98D
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	41.22
Volume of Water in Well	6.71
Minutes of Pumping	14

EVACUATION INFORMATION

Volume of water removed from well 4

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: ~~Grenfose Pump~~ Peristaltic

Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Lamotte

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1141	0.5	—	7.17	15.20	7.78	0.478	684.0	1.94	-97.5
1145	0.5		11.71	14.56	7.57	0.466	94.4	0.64	-117.8
1149	0.5		13.20	14.60	7.56	0.453	69.4	0.50	-119.7
1152	0.5		13.43	14.59	7.56	0.457	44.4	0.44	-123.0
1155	0.5		13.72	14.59	7.56	0.458	46.2	0.46	-127.2
Final 1203	—		—	14.59	7.56	0.456	45.2	0.48	-129.2

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - pale gray, low turbidity, no odor.
Final - clear, colorless, odorless

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-99S
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/19/99 Time In / Out
Weather Sun, 60°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	12.36	
Screen Interval Depth	10'	
Water Table Depth	5.34	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1230 (on labels)
Sample ID MW-99S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Natural Att. Parameters
Total Iron: 0.0 mg/L
Ferrous Iron: 0.0 mg/L

WELL WATER INFORMATION

Length of Water Column	7.22
Volume of Water in Well	1.2
Minutes of Pumping	5

EVACUATION INFORMATION

Volume of water removed from well 2 gall

Did well go dry? (Y) N

Evacuation Method: Bailer ( ) Pump (x)

Pump Type: ~~Gronfose~~ Peristaltic Pump

Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1210	0.5	—	7.21	15.95	7.98	0.366	173.0	5.88	-3.2
1215	<0.1 dry		dry	15.99	7.86	6.366	62.1	8.64	28.6
								↑	
1216			10.86					air inline	b.c. dry
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - clear, colorless, odorless
Final - same. Dry @ 1215. Let recover & sample

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

#134

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-87S
Key No. 2531
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/19/99 **Time In / Out**
Weather Sun, 50° F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	13.85	
Screen Interval Depth	10'	
Water Table Depth	4.83	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1410
Sample ID MW-
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Nat Attenuation plus MS/MSD
Total Fe: 6.0 mg/L
Diss Fe: 5.5 mg/L
No MS/MSD for VOCs

WELL WATER INFORMATION

Length of Water Column	9.02
Volume of Water in Well	1.5 gall
Minutes of Pumping	23

EVACUATION INFORMATION

Volume of water removed from well 10 gall
Did well go dry? Y (N)
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Grohfose Pump~~ Peristaltic

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1347	0.5		5.20	17.12	6.60	0.445	1286.0	1.68	-34.8
1350	0.5		5.23	16.92	6.46	0.447	638.8	0.54	-38.5
1353	0.5		5.28	16.89	6.43	0.447	·	0.46	-40.8
1400	0.5		5.26	16.84	6.40	0.444	148.2	0.34	-43.6
1407	0.5		5.24	16.90	6.40	0.443	179.2	0.32	-40.3
1410	0.5		5.26	16.91	6.39	0.443	131.2	0.29	-43.6
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - Red brown, turbid, odor
Problems w/ turbidity, cleaned head + emptied flo-thru cell. must be some clay in water
Final purge - cloudy, low turbidity, odor

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-96S F ck 4/12/00
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site Name: Solutia Indian Orchard Plant
Sampling Personnel: Leann Sanders/Christopher Rauber
Date: 11/19/99 Time In / Out: 1500
Weather: Sun, 50°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	13.99	
Screen Interval Depth	10'	
Water Table Depth	5.35	
Intake Depth of pump/tubing		

Pump Start Time
Pump Stop Time
Sample Time: 1545
Sample ID: MW-96S
Sampled for:
(Y) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(Y) Other (Specify)

Redevelop? Y (N)

Fe Total: 0 mg/L Nat Attenuation
Fe Ferrous: 0 mg/L GW-DUP-4 taken for Nat. Att. Parameters

WELL WATER INFORMATION

Length of Water Column	8.64
Volume of Water in Well	1.4
Minutes of Pumping	

EVACUATION INFORMATION

Volume of water removed from well: 6 gall
Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Stonfose Pump~~ Peristaltic
Did well go dry? Y (N)
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1510	0.5		5.85	18.66	11.44	1.314	94.0	3.24	-189.9
1513			6.57	19.01	11.44	1.322		0.66	-223.4
Battery dead, Δ battery									
1525	0.5		9.10	19.24	11.40	1.300	71.4	0.42	-269.0
1529	0.5		10.06	19.30	11.41	1.294	57.2	0.24	-291.8
1532	0.5		10.61	19.39	11.13	1.098	90.3	0.21	-294.1
1540	0.5		11.86	19.40	10.64	0.940	28.5	0.18	-284.3
1543	0.5		12.02	19.38	10.56	0.918	7.3	0.18	-282.8
1546	0.5		12.15	19.46	10.49	0.897	3.9	0.17	-280.1
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS: Initial purge - Orange/brown, low turb, no odor. First purge - Clear, ~~colorless~~ BAIR color odorless.

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:
Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-97S
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site Name: Solutia Indian Orchard Plant
Sampling Personnel: Leann Sanders/Christopher Rauber
Date: 11/23/99 Time In / Out
Weather: Sun 65°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	27.46	
Screen Interval Depth	10'	
Water Table Depth	4.57	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1500
Sample ID MW-97S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
+ Natural Att

WELL WATER INFORMATION

Length of Water Column	22.89
Volume of Water in Well	3.7 gal
Minutes of Pumping	7

Total Fe 0.0 mg/L
Diss Fe 0.0 mg/L

EVACUATION INFORMATION

Volume of water removed from well ~2.5 gal
Evacuation Method: Bailer ( ) Pump (x)
Did well go dry? Y (N)
Pump Type: ~~Grafloc Pump~~ Peristaltic
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1439	0.5		4.68	18.96	7.84	0.365	397.2	3.84	85.4
1444	0.5		4.68	17.67	6.69	0.380	88.7	0.66	109.2
1447	0.5		4.68	17.76	6.68	0.372	39.9	1.34	115.6
1450	0.5		4.68	17.70	6.68	0.360	20.1	2.32	122.8
1453	0.5		4.68	17.72	6.68	0.355	25.2	2.30	126.6
1456	0.5		4.68	17.69	6.68	0.357	14.9	2.50	133.2
Final 1510	0.5		4.68	17.73	6.68	0.356	16.2	2.61	138.2

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Initial purge, low turbidity - orange-brown, no odor.
Final, clear, colorless, odorless

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:
Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-83S
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site Name: Solutia Indian Orchard Plant
Sampling Personnel: Leann Sanders/Christopher Rauber
Date: 11/23/99 Time In / Out
Weather: Clouds, 65°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	17.60	
Screen Interval Depth	10'	
Water Table Depth	5.15	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1145
Sample ID MW-83S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Natural Attenuation
Total Fe: 4.6 mg/L
Diss Fe: 6.2 mg/L

WELL WATER INFORMATION

Length of Water Column	12.45
Volume of Water in Well	2 gal
Minutes of Pumping	22

EVACUATION INFORMATION

Volume of water removed from well ~3.5 gall

Evacuation Method: Bailer ( ) Pump (x)

Did well go dry? Y (N)

Pump Type: ~~Grenfose~~ Peristaltic Pump

Water Quality Meter Type(s) / Serial Numbers: YSI - 6820 Sonde.

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1123	0.5		5.52	16.32	7.06	1.013	72.5	4.20	-40.7
1126	0.5		5.53	16.46	6.78	0.996	54.9	0.68	-61.5
1129	0.5		5.46	16.42	6.67	0.735	30.5	0.50	-53.3
1134	0.5		5.48	16.45	6.64	0.650	14.5	0.41	-56.0
1138	0.5		5.48	16.48	6.61	0.610	9.1	0.36	-57.3
1142	0.5		5.48	16.45	6.60	0.601	7.0	0.38	-59.4
1145	0.5		5.49	16.46	6.59	0.595	7.4	0.34	-60.7
Final 1155	0.5		5.48	16.47	6.60	0.592	7.1	0.32	-61.2

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - light brown, low turbidity, no odor, final purge - clear, colorless, odor

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-94S
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/23/99 Time In / Out 0900
Weather Clouds 65°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	14.61	
Screen Interval Depth	10'	
Water Table Depth	5.71	
Intake Depth of pump/tubing		

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 0945
Sample ID MW-94S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
✓ Nat Attenuation

Total Fe 5.0 mg/L
Diss Fe 2.8 mg/L

WELL WATER INFORMATION

Length of Water Column	8.9
Volume of Water in Well	1.5 gal
Minutes of Pumping	2

EVACUATION INFORMATION

Volume of water removed from well 1.75 gall
Did well go dry? (Y) N
Water Quality Meter Type(s) / Serial Numbers: NSI 6820 Sonde

Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Cronfose~~ Peristaltic Pump

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0924	0.5		9.23	19.63	6.99	0.663	58.8	4.38	-89.7
0925	0.5		11.06	19.62	6.98	0.661	266.3	1.96	-90.6
0926	dry								
Final	N/A	not enough		water.					

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge low turbidity, light brown, odor, trace blebs of rainbow sheen. Final purge - same.

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-95S
Key No. 2537
PID Background (ppm) 0
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/23/99 Time In / Out
Weather Clouds, 65°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	~+2'	
Well Diameter	2"	
Well Depth	16.79	
Screen Interval Depth	10'	
Water Table Depth	8.24	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time 1005
Pump Stop Time
Sample Time 1020 (on labels)
Sample ID MW-95S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
plus Natural Attenuation
Total Fe: 0.0 mg/L
Ferrous Fe: 0.0 mg/L

WELL WATER INFORMATION

Length of Water Column	8.55
Volume of Water in Well	1.49 gal
Minutes of Pumping	25

EVACUATION INFORMATION

Volume of water removed from well ~2
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Grunfose Pump~~ Peristaltic
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Smile

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1007	0.5		9.47	17.74	8.06	0.657	96.2	7.21	39.6
1011	0.5		11.74	17.38	7.85	0.663	83.8	3.15	47.6
1016	0.5		13.03	17.45	7.71	0.681	63.8	3.45	55.8
1019	0.5		13.45	17.45	7.71	0.678	17.4	3.68	55.1
1022	0.5		13.62	17.45	7.77	0.672	27.6	3.75	51.4
1027	0.5		13.46	17.45	7.79	0.665	14.3	3.71	52.4
1030	0.5		13.29	17.44	7.80	0.666	12.6	3.86	55.3
Final									

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - clear - maroon (purple) tint, no odor. There appears to be precipitation going on (the tube shows clear water, but purge water in bucket is a deep purple color). Final - clear, light purple, no odor

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-92S
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site Name: Solutia Indian Orchard Plant
Sampling Personnel: Leann Sanders/Christopher Rauber
Date: 11/23/99 Time In / Out
Weather: Sun 65°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	X	
Height of Ref. Pt. Relative to Grade	flush	
Well Diameter	2"	
Well Depth	/	
Screen Interval Depth	12.69	
Water Table Depth	4.84	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1220
Sample ID MW-92S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	7.85
Volume of Water in Well	1.3 gal
Minutes of Pumping	3

EVACUATION INFORMATION

Volume of water removed from well 2 gal (dry @ 2 gal)
Did well go dry? (Y) N
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Grafoss~~ Peristaltic Pump

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
Final 1225	—	—	—	17.88	7.10	0.416	—	—	—

MISCELLANEOUS OBSERVATIONS/PROBLEMS

17.88, 7.10, 0.416

SAMPLE DESTINATION

Laboratory: Savana Laboratory , 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

GROUNDWATER SAMPLING FIELD LOG

Well No. MW-58S
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site Name Solutia Indian Orchard Plant
Sampling Personnel Leann Sanders/Christopher Rauber
Date 11/23/99 **Time In / Out**
Weather Sun, 65°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	~1.3'	
Well Diameter	2"	
Well Depth	23.91	
Screen Interval Depth	10'	
Water Table Depth	7.67	
Intake Depth of pump/tubing	—	

Redevelop? Y (N)

Pump Start Time
Pump Stop Time
Sample Time 1330 (on labels)
Sample ID MW-58S
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Nat. Attenuation
Total Fe: 0.0 mg/L
Diss Fe: 0.0 mg/L

WELL WATER INFORMATION

Length of Water Column	16.24
Volume of Water in Well	2.6 gall
Minutes of Pumping	42

EVACUATION INFORMATION

Volume of water removed from well ~10 gall
Did well go dry? Y (N)
Water Quality Meter Type(s) / Serial Numbers: YSI 6820 Sonde

Evacuation Method: Bailer ( ) Pump (x)
Pump Type: ~~Gronfose~~ Peristaltic Pump

Time	Pump Rate (L/min.)	Total Gallons Removed	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1258	0.5		~~10~~ 9.61	16.74	7.79	0.315	125.3	2.20	30.6
1301	0.5		12.41	16.98	7.74	0.315	30.1	0.79	-24.7
1306	0.5		13.82	16.84	7.66	0.327	14.5	0.63	-105.8
1309	0.5		13.16	16.80	7.61	0.330	8.2	0.77	-113.8
1312	0.5			16.82	7.61	0.330	7.1	0.55	-112.3
Battery dead			@ 1315	~~16.66~~	~~7.60~~	~~0.339~~	~~2.3~~		-105.4
1330	0.5		13.45	16.66	7.60	0.339	2.3	0.60	-105.4
1337	0.8		14.60	16.94	7.57	0.328	3.2	1.01	-124.6
1340	0.8	New Battery	14.82	16.91	7.55	0.328	4.1	0.745	-126.0
1343	0.8		14.98	16.90	7.53	0.329	0.3	0.70	-125.8
1346	0.8		15.20	16.90	7.53	0.328	1.2	0.69	-126.2
Final 1358	—		—	16.89	7.52	0.329	1.8	0.59	-128.1

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial purge - light brown, low turbidity, no odor. Final purge - clear colorless odorless.

SAMPLE DESTINATION

Laboratory: Savana Laboratory, 5102 La Roche Ave, Savannah, GA 31404
Delivered Via: Federal Express
Airbill #:

Field Sampling Coordinator: Leann Sanders

K-2 April 2000

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-83S
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/20/00
Weather:		**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet) 4.77	(from MP)	Well Type:	Flushmount ☒ Stick-Up ☐
Total Depth:	(feet) 17.60	(from MP)	Well Material:	Stainless Steel ☐ PVC ☒
Length of Water Column:	(feet) 12.83		Well Locked:	Yes ☒ No ☐
Volume of Water in Well:	(gal) 2.09		Measuring Point Marked:	Yes ☒ No ☐
Three Well Volumes:	(gal) 6.27		Well Diameter:	1" ☐ 2" ☒ Other:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:		
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:		
Duration of Pumping:	(min) 33					
Average Pumping Rate:	(ml/min) 300	Water-Quality Meter Type:	Horiba U-22			
Total Volume Removed:	~~(gal)~~ 10 Liters	Did well go dry:	Yes ☐	No ☒		

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Start 1607 Parameter:	1	2	3	4	5	6	7	8	9
	1609	1615	1618	1621	1624	1627	1633	1636	
Volume Purged ~~(gal)~~ L	0	2	3.75	4.75	5.75	6.75		9.75	
Rate ~~(mg/L)~~ mL/min	300	300	300	300	300	300	300	300	
Depth to Water (ft.)	4.84	4.83	4.84	4.84	4.84	4.84		4.84	
pH	6.72	6.56	6.52	6.45	6.40	6.36	6.32	6.30	
Temp. (C)	12.5	11.8	11.5	11.4	11.3	11.2	11.1	11.1	
Conductivity (mS/cm)	1.05	1.03	1.01	0.98	0.96	0.95	0.93	0.93	
Dissolved Oxygen	1.33	0.26	0.16	0.10	0.05	0.01	0.00	0.00	
ORP (mV)	-78	-68	-66	-64	-63	-64	-65	-65	
Turbidity (NTU)	129.0	107.0	79.5	83.7	72.0	64.7	69.5 *	69.4	
Notes:									

Sampling Information

Analyses	#		Laboratory
VOCs	2	☒	STL (Savannah)
NA Parameter List		☒	STL (Savannah)
		☐	
Sample ID: MW-83S		Sample Time: 1645	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☒	No ☐	
Duplicate ID: DUP-1		Dup. Time: 1645	
Chain of Custody Signed By:			

Notes

initial purge - clear, colorless, no odor

* water is visually clear

DUP-1 collected

Field DO Analyses		
Range		Result
0 - 1 mg/L Test	☒	0.0
1- 12 mg/L Test	☐	

Field Iron Analyses		
Test		Result
Total Iron	☒	0.0
Ferrous Iron	☒	3.0

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel: Michael Cobb / Jennifer Sandorf **Well ID:** MW-94S
Client / Job Number: Solutia, Inc. / 102.58.018 **Date:** 4/20/00
Weather: partly cloudy, breezy, ~60° **Time In:** **Time Out:**

Well Information

Depth to Water:	(feet) 4.18	(from MP)
Total Depth:	(feet) 14.61	(from MP)
Length of Water Column:	(feet) 10.43	
Volume of Water in Well:	(gal) 1.7	
Three Well Volumes:	(gal) 5.10	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1" ☐	2" ☒	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Duration of Pumping: (min) NA
Average Pumping Rate: (ml/min) NA Water-Quality Meter Type: Horiba U-22
Total Volume Removed: (gal) 11 Liters Did well go dry: Yes ☒ No ☐

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

~~Turbidity~~ Parameter:	1	2	3	4	5	6	7	8	9
	1204	1208	1211	1214	1220		1512	1518	
Volume Purged (~~gal~~ L)	0	1.0	2.0	2.75	3.5			11	
Rate (~~mg/L~~ mL/min)	150	180	180	180	150			200	
Depth to Water (ft.)	6.63	6.95	7.17	7.58	7.88		4.29	6.10	
pH	6.80	6.82	6.82	6.81	6.79			6.80	
Temp. (C)	17.3	17.3	17.3	17.3	17.3			17.6	
Conductivity (mS/cm)	0.857	0.861	0.860	0.857	0.847			0.728	
Dissolved Oxygen	1.37	1.11	0.97	1.23	1.48			2.18	
ORP (mV)	-145	-143	-142	-137	-129			-105	
Turbidity (NTU)	18.5	24.3	29.4	44.0	62.4			150	
Notes:						purged dry	pumping resumed		

Sampling Information

Analyses	#		Laboratory
VOCs	2	☒	STL (Savannah)
NA Parameter List		☒	STL (Savannah)
		☐	

Sample ID: MW-94S Sample Time: 1520
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID Dup. Time:
Chain of Custody Signed By:

Notes

initial purge - light gray, some silt
@1223 → purge well until dry → will let recover and collect sample

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☒	1.0
1- 12 mg/L Test ☒	1.0

Field Iron Analyses	
Test	Result
Total Iron ☒	9.0
Ferrous Iron ☒	5.2

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-93A
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/20/00
Weather:	Cloudy, 55-60°	**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet) 4.54	(from MP)	Well Type:	Flushmount ☒	Stick-Up ☐
Total Depth:	(feet) 24	(from MP)	Well Material:	Stainless Steel ☐	PVC ☒
Length of Water Column:	(feet) 19.46		Well Locked:	Yes ☐	No ☒
Volume of Water in Well:	(gal) 0.80		Measuring Point Marked:	Yes ☒	No ☐
Three Well Volumes:	(gal) 239		Well Diameter:	1" ☒ 2" ☐	Other:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:			
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:			
Duration of Pumping:	(min) 39						
Average Pumping Rate:	(ml/min) 280	Water-Quality Meter Type:	Horiba U-22				
Total Volume Removed:	~~(gal)~~ 8.5 Liters	Did well go dry:	Yes ☐	No ☒			

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Start 1421 Parameter:	1	2	3	4	5	6	7	8	9
	1422	1425	1428	1431	1434	1438	1442	1445	1448
Volume Purged ~~(gal)~~ L	0	1.5	2.5	3.5	4.25	5.25	6.25	7.25	8.25
Rate ~~(mg/L)~~ mL/min	280	280	280	280	280	280	280	280	280
Depth to Water (ft.) X									
pH	7.40	7.40	7.41	7.42	7.44	7.44	7.45	7.45	7.45
Temp. (C)	15.6	15.8	15.7	15.8	15.8	15.8	15.9	15.9	15.9
Conductivity (mS/cm)	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.04
Dissolved Oxygen	1.28	0.46	0.28	0.21	0.18	0.15	0.07	0.07	0.07
ORP (mV)	-151	-159	-162	-164	-166	-167	-170	-171	-171
Turbidity (NTU)	34.9	61.6	75.9	81.6	47.1	74.7 *	98.9*	150.0*	225.0*
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs	2 ☒	STL (Savannah)
NA Parameter List	☒	STL (Savannah)
	☐	
Sample ID: MW-93A	Sample Time: 1500	
MS/MSD:	Yes ☐	No ☒
Duplicate:	Yes ☐	No ☒
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Notes

* cannot get water level probe and tubing in 1" casing at same time

Initial purge - light brown, some silt

* turbidity reading high -> water is visually clear (<50 NTU)

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☒	0.35
1- 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☒	1.4 mg/L
Ferrous Iron ☒	1.2 mg/L

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	Well ID:	MW-59S
Client / Job Number:	Solutia, Inc. / 102.58.018	Date:	4/20/00
Weather:	overcast 50°F	Time In:	Time Out:

Well Information

Depth to Water:	(feet) 3.92	(from MP)
Total Depth:	(feet) 16.5	(from MP)
Length of Water Column:	(feet) 12.58	
Volume of Water in Well:	(gal) 2.05	
Three Well Volumes:	(gal) 6.15	

Well Type:	Flushmount ☐		Stick-Up ☒	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1" ☐	2" ☒	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Duration of Pumping:	(min) NA		
Average Pumping Rate:	(ml/min) NA	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 2 Liters	Did well go dry:	Yes ☒ No ☐

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

start 955 Parameter:	1	2	3	4	5	6	7	8	9
	958	1002	~~1338~~	1358	1402				
Volume Purged (~~gal~~) L	0	~~0.25~~ 1.3							
Rate (~~mg/L~~) mL/min	250	250							
Depth to Water (ft.)	6.45	6.85							
pH	8.06	7.98		7.84	7.91				
Temp. (C)	10.3	9.9		12.4	11.7				
Conductivity (mS/cm)	0.354	0.355		0.337	0.344				
Dissolved Oxygen	2.83	1.63		3.80	3.05				
ORP (mV)	151	147		16	17				
Turbidity (NTU)	13.0	7.1		<50	<50				
Notes:									

Sampling Information

Analyses	#		Laboratory
VOCs	2	☒	STL (Savannah)
NA Parameter List		☐	STL (Savannah)
		☐	

Sample ID: MW-59S		Sample Time: 1400	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☐	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

Initial purge - clear, slightly pink, no odor
pumped dry - rapid drop in DTW - will let recover and collect sample

Field DO Analyses		
Range		Result
0 - 1 mg/L Test	☐	
1- 12 mg/L Test	☒	2.10

Field Iron Analyses		
Test		Result
Total Iron	☐	
Ferrous Iron	☐	

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-84S
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/20/06
Weather:	cloudy, light wind, ~50°	**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet) 12.47	(from MP)	Well Type:	Flushmount ☒ Stick-Up ☐
Total Depth:	(feet) 21.57	(from MP)	Well Material:	Stainless Steel ☐ PVC ☒
Length of Water Column:	(feet) 9.1		Well Locked:	Yes ☒ No ☐
Volume of Water in Well:	(gal) 1.48		Measuring Point Marked:	Yes ☒ No ☐
Three Well Volumes:	(gal) 4.45		Well Diameter:	1" ☐ 2" ☒ Other:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:			
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:			
Duration of Pumping:	(min) 40						
Average Pumping Rate:	(ml/min) 210	Water-Quality Meter Type:	Horiba U-22				
Total Volume Removed:	~~(gal)~~ 8.5 Liters	Did well go dry:	Yes ☐	No ☒			

Conversion Factors			
1" ID	2" ID	4" ID	6" ID
0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

start 1042 Parameter:	1	2	3	4	5	6	7	8	9
	1046	1050	1054	1058	1102	1105	1108	1111	1114
Volume Purged ~~(gal)~~ L	0.5	1.75	2.5	3.5	4.5	5.25	6.0	6.5	7.0
Rate ~~(mgal)~~ mL/min	250	250	250	250	250	250	250	175	175
Depth to Water (ft.)	14.29	14.69	14.91	15.17	15.37	15.45			15.12
pH	6.87	6.63	6.56	6.52	6.51	6.52	6.54	6.55	6.56
Temp. (C)	14.9	15.0	15.1	15.1	15.2	15.2	15.2	15.2	15.3
Conductivity (mS/cm)	0.959	0.961	0.955	0.952	0.958	0.953	0.929	0.909	0.899
Dissolved Oxygen	3.43	2.77	2.65	2.55	2.38	2.37	2.70	2.91	3.02
ORP (mV)	176	174	171	169	167	163	152	143	132
Turbidity (NTU)	59.4	53.4	47.4	39.5	31.7	21.9	15.0	11.3	8.9
Notes:									

Sampling Information

Analyses	#		Laboratory
VOCs	2	☒	STL (Savannah)
NA Parameter List		☐	STL (Savannah)
		☐	

Sample ID: MW-84S		Sample Time: 1130	
MS/MSD:	Yes ☐	No ☐	
Duplicate:	Yes ☐	No ☐	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

initial purge light brown, silty, no odor

slowed pump rate @ 1110 to reduce drawdown

continued on Page 2.

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☐	
1- 12 mg/L Test ☐	2.5

Field Iron Analyses	
Test	Result
Total Iron ☐	0.3
Ferrous Iron ☐	0.2

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-84S (cont.)
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/20/00
Weather:		**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1" ☐	2" ☐	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☐	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☐	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☐	Grundfos ☐	Other:

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐ No ☑

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	10	2	3	4	5	6	7	8	9
	1117	1120	1123						
Volume Purged (~~gal~~ L)	7.5	8.0	8.5						
Rate (mg/L)	175	175	175						
Depth to Water (ft.)	14.83	14.69	14.60						
pH	6.57	6.56	6.56						
Temp. (C)	15.3	15.4	15.4						
Conductivity (mS/cm)	0.902	0.908	0.913						
Dissolved Oxygen	2.97	2.90	2.82						
ORP (mV)	123	117	113						
Turbidity (NTU)	8.5	7.1	7.0						
Notes:									

Sampling Information

Analyses	#		Laboratory
VOCs	2	☐	STL (Savannah)
NA Parameter List		☐	STL (Savannah)
		☐	

Sample ID:		Sample Time:	
MS/MSD:	Yes ☐	No ☐	
Duplicate:	Yes ☐	No ☐	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☐	
1- 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☐	
Ferrous Iron ☐	

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-95S
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/20/00
Weather:	partly cloudy, 50°	**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet) 7.81	(from MP)	
Total Depth:	(feet) 16.79	(from MP)	
Length of Water Column:	(feet) 8.98		
Volume of Water in Well:	(gal) 1.46		
Three Well Volumes:	(gal) 4.39		

Well Type:	Flushmount ☐	Stick-Up ☒		
Well Material:	Stainless Steel ☐	PVC ☒		
Well Locked:	Yes ☒	No ☐		
Measuring Point Marked:	Yes ☒	No ☐		
Well Diameter:	1" ☐	2" ☒	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Duration of Pumping:	(min) 25		
Average Pumping Rate:	(ml/min) 350	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	~~(gal)~~ 6.5 Liters	Did well go dry:	Yes ☐ No ☒

Conversion Factors			
1" ID	2" ID	4" ID	6" ID
0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Start 8:50 Parameter:	1	2	3	4	5	6	7	8	9
	853	857	901	905	909	913			
Volume Purged ~~(gal)~~ L	0	1.5	3	4	5.25	6.5			
Rate (mg/L)	600	350	350	350	350	350			
Depth to Water (ft.)	8.12	8.05	8.05	8.05	8.06	8.06			
pH	7.84	7.81	7.81	7.81	7.78	7.72			
Temp. (C)	11.9	11.8	11.8	11.8	11.8	11.8			
Conductivity (mS/cm)	0.725	0.724	0.732	0.730	0.725	0.718			
Dissolved Oxygen	3.70	2.79	2.52	2.32	2.29	2.40			
ORP (mV)	166	161	157	154	152	152			
Turbidity (NTU)	9.1	11.1	6.0	2.9	1.2	1.1			
Notes:									

Sampling Information

Analyses	#		Laboratory
VOCs	2	☒	STL (Savannah)
NA Parameter List		☒	STL (Savannah)
		☐	

Sample ID: MW-95S		Sample Time: 915	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☐	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

initial purge clear, slight pink tint, no odor

final clear, colorless

Field DO Analyses		
Range		Result
0 - 1 mg/L Test	☐	
1- 12 mg/L Test	☐	2.5

Field Iron Analyses		
Test		Result
Total Iron	☒	0.0 mg/L
Ferrous Iron	☒	0.0

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-60S
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	~~4/18/00~~ 4/20/00
Weather:	cloudy ~40°F	**Time In:**	~~1717~~ **Time Out:**

Well Information

Depth to Water:	(feet) 7.23	(from MP)	Well Type:	Flushmount ☐	Stick-Up ☑
Total Depth:	(feet) 30.32	(from MP)	Well Material:	Stainless Steel ☐	PVC ☑
Length of Water Column:	(feet) 23.09		Well Locked:	Yes ☐	No ☑
Volume of Water in Well:	(gal) 3.76		Measuring Point Marked:	Yes ☑	No ☐
Three Well Volumes:	(gal) 11.3		Well Diameter:	1" ☐ 2" ☒	Other:

Purging Information

Purging Method:	Bailer ☒	Peristaltic ☑	Grundfos ☐	Other:			
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☑	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☑	Grundfos ☐	Other:			

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Duration of Pumping:	(min) 27		
Average Pumping Rate:	(ml/min) 400	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 23 Liters	Did well go dry:	Yes ☐ No ☒

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2 (low start)	3	4	5	6	7	8	9	
Start 7:34 PW 6.90	742	746	750	753	756	759	802	805	808	811
Volume Purged (gal) L		13	14.5	15	~~15.75~~ 16	17.5	18.5	20	21	23
Rate (mg/L)			400	400	400	400	400	400	400	400
Depth to Water (ft.)	14.8	16.0	11.78	10.90	10.55	10.38	10.36	10.37	10.40	10.43
pH			7.37	7.93	7.98	7.95	7.89	7.85	7.84	7.84
Temp. (C)			11.0	10.7	10.6	10.6	10.6	10.6	10.6	10.6
Conductivity (mS/cm)			0.247	0.244	0.243	0.240	0.238	0.237	0.236	0.235
Dissolved Oxygen			2.47	1.06	1.21	1.61	2.12	2.48	2.57	2.6
ORP (mV)			144	133	132	133	136	138	140	141
Turbidity (NTU)			7.7	3.4	1.8	0.7	0.8	0.4	0.2	0.2
Notes:										

Sampling Information

Analyses	#		Laboratory
VOCs	2	☑	STL (Savannah)
NA Parameter List		☐	STL (Savannah)
		☐	
Sample ID: MW-60S		Sample Time: 815	
MS/MSD:	Yes ☐	No ☑	
Duplicate:	Yes ☐	No ☑	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

rapid drawdown - was going to purge and let recover but was getting enough formation water, so changed to low flow at 746.

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☐	
1- 12 mg/L Test ☒	2.05

Field Iron Analyses	
Test	Result
Total Iron ☒	0.15 mg/L
Ferrous Iron ☒	0.10 mg/L

Se Num 0.3060

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

2 packages

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Solutia FCHA	10258.018	MA

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
M Stewart		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Karen Hall	315-446-9120	315-449-0355

CLIENT NAME	CLIENT EMAIL
BBL	

CLIENT ADDRESS: 6725 Fourth Rd, Syracuse NY 13214

COMPANY CONTRACTING THIS WORK (if applicable): Solutia, 730 Worcester St, Springfield MA 01151

PAGE 1 OF

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	Sulfide	Sulfide Total	Sulfide Dissolved	TOC	Dissolved Gases	VOCs	Ammonia, Phosphorus, Nitrate	NH3, Cl, NO3, NO2 Soil		Temp Blank	REMARKS
4/30/10	815	MW-60S		X									3					Level 4 data package
	915	MW-95S		X				1	1	1	1	3	3	1	1			and EDD to Karen
	1130	MW-84S		X									3					Hall (BBL) analysis
	1400	MW-59S		X									3					of results only to
	1500	MW-93A		X				1	1	1	1	3	3	1	1			Roy Hart (Solutia).
	1520	MW-94S		X				1	1	1	1	3	3	1	1			Metals analysis to be
	—	DUP-1		X				1	1	1	1	3	3	1	1			lab-filtered
	1645	MW-53S		X				1	1	1	1	3	3	1	1			
		Trip Blank-2		X									X					
		Temperature Blank		X													X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4/12/10		[signature]	4/30/10	1800			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]								

LABORATORY USE ONLY Fed Ex # 8128 3101 2283

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
			YES NO			

CLIENTS FIELD COPY

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	Well ID:	MW-87S
Client / Job Number:	Solutia, Inc. / 102.58.018	Date:	4/19/00
Weather:	Cloudy, light breeze, ~45°	Time In:	Time Out:

Well Information

Depth to Water:	(feet) 4.57	(from MP)
Total Depth:	(feet) 13.85	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Well Type:	Flushmount ☒	Stick-Up ☐		
Well Material:	Stainless Steel ☐	PVC ☒		
Well Locked:	Yes ☒	No ☐		
Measuring Point Marked:	Yes ☒	No ☐		
Well Diameter:	1" ☐	2" ☒	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Conversion Factors			
1" ID	2" ID	4" ID	6" ID
0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Duration of Pumping:	(min) 24		
Average Pumping Rate:	(ml/min) 450	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 12.5 Liters	Did well go dry:	Yes ☐ No ☒

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	1609	1612	1615	1618	1621	1626	1629	1632	
Volume Purged (gal)	0	2	4	5.75	7.25	9	11	12.5	
Rate (mg/L) ml/min	450	450	450	450	450	450	450	450	
Depth to Water (ft.)	4.71	4.71	4.71	4.71	4.71	4.72	4.72	4.72	
pH	6.74	6.47	6.41	6.38	6.35	6.34	6.33	6.32	
Temp. (C)	12.1	12.2	12.2	12.2	12.2	12.2	12.2	12.2	
Conductivity (mS/cm)	0.615	0.616	0.615	0.618	0.623	0.623	0.621	0.622	
Dissolved Oxygen	2.22	0.70	0.35	0.28	0.16	0.14	0.12	0.12	
ORP (mV)	-74	-72	-72	-72	-72	-71	-71	-71	
Turbidity (NTU)	87.8	112.0	59.1	60.8	54.8	52.1	48.6	48.0	
Notes:									

start 1608

1628

1632

Sampling Information

Analyses	#	Laboratory
VOCs	2	☒ STL (Savannah)
NA Parameter List		☒ STL (Savannah)
		☐

Sample ID:	MW-87S	Sample Time:	1645
MS/MSD:	Yes ☒	No ☐	
Duplicate:	Yes ☐	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

initial purge light brown silty, odor present

MS/MSD collected

Field DO Analyses		
Range		Result
0 - 1 mg/L Test	☐	0.1
1 - 12 mg/L Test	☐	

Field Iron Analyses		
Test		Result
Total Iron	☐	8.0 mg/L
Ferrous Iron	☐	4.2 mg/L

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-99S
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/19/00
Weather:	45°F, overcast	**Time In:** 1450	**Time Out:**

Well Information

Depth to Water:	(feet)	4.62 (from MP)
Total Depth:	(feet)	12.56 (from MP)
Length of Water Column:	(feet)	7.94
Volume of Water in Well:	(gal)	1.29
Three Well Volumes:	(gal)	3.88

Well Type:	Flushmount ☒	Stick-Up ☐		
Well Material:	Stainless Steel ☐	PVC ☒		
Well Locked:	Yes ☒	No ☐		
Measuring Point Marked:	Yes ☒	No ☐		
Well Diameter:	1" ☐	2" ☒	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐ No ☒

Conversion Factors			
1" ID	2" ID	4" ID	6" ID
0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

1451 Parameter:	1	2	3	4	5	6	7	8	9
	1502	1509	1514	1521	1530	1538	1543		
Volume Purged (~~gal~~) L	<0.5	1.5	2.5	3.5	4.5	5.5	6.0		
Rate (~~mg/L~~) ml/min	200	100	110	110	110	110	110		
Depth to Water (ft.)	6.02	6.35	6.47	~~6.46~~ 6.64	6.82	7.03	7.14		
pH	8.27	8.24	8.2	8.16	8.17	8.22	8.26		
Temp. (C)	10.8	10.8	10.8	10.8	10.8	10.8	10.9		
Conductivity (mS/cm)	0.234	0.231	0.236	0.231	0.233	0.236	0.237		
Dissolved Oxygen	6.94	6.46	6.04	5.35	4.64	4.54	4.62		
ORP (mV)	28	38	44	49	51	53	55		
Turbidity (NTU)	27.6	33.4	35.9	~~49~~ 34.4	34.5	33.0	30.1		
Notes:									

Sampling Information

Analyses	#		Laboratory
VOCs	2	☒	STL (Savannah)
NA Parameter List		☐	STL (Savannah)
		☐	

Sample ID: MW-99S		Sample Time: 1545	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☐	No ☒	
Duplicate ID ____		Dup. Time: ____	
Chain of Custody Signed By:			

Notes

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☐	4.0
1- 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☒	0.5 mg/L
Ferrous Iron ☒	0.2 mg/L

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-98D
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/19/00
Weather:	Cloudy, breezy, ~45°	**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet) 5.49	(from MP)
Total Depth:	(feet) 47.25	(from MP)
Length of Water Column:	(feet) 41.76	
Volume of Water in Well:	(gal) 6.81	
Three Well Volumes:	(gal) 20.4	

Well Type:	Flushmount ☑		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☑	
Well Locked:	Yes ☑		No ☐	
Measuring Point Marked:	Yes ☑		No ☐	
Well Diameter:	1" ☐	2" ☑	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☑	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☑	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☑	Grundfos ☐	Other:

Duration of Pumping:	(min) 45		
Average Pumping Rate:	(ml/min) 200	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(~~gal~~) 11 Liters	Did well go dry:	Yes ☐ No ☒

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	
	1400	1404	1408	1412	1417	1421	1425	1429	1433	1437
Volume Purged (gal) L	0	0.5	1.0		4	5.5	6.75	8	9	10
Rate (mL/L)	400 *	200	200		200	200	200	200	200	200
Depth to Water (ft.)	5.95	7.44	7.45		8.02	8.19	8.24	8.27	8.34	8.39
pH	7.32	7.23	7.21	7.21	7.22	7.22	7.23	7.23	7.23	7.24
Temp. (C)	12.8	13.1	12.9	12.8	13.0	13.1	13.1	13.1	13.2	13.2
Conductivity (mS/cm)	0.485	0.531	0.543	0.540	0.545	0.546	0.545	0.545	0.546	0.547
Dissolved Oxygen	5.67	2.64	2.39	2.03	2.23	1.28	1.12	0.94	0.76	0.61
ORP (mV)	-31	-58	-61	-59	-64	-70	-73	-77	-84	-91
Turbidity (NTU)	350	28.3	480	71.6	98.8	104.0	103.0	101.0	950	953
Notes:										

that 358

Sampling Information

Analyses	#	Laboratory
VOCs	2	☑ STL (Savannah)
NA Parameter List		☑ STL (Savannah)
		☐
Sample ID: MW-98D		Sample Time: 1445
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID		Dup. Time:
Chain of Custody Signed By:		

Notes

* slowed down pump rate -> too rapid drawdown

purgewater - clear, colorless, v. little fine brown particulate -> then more sediment

turbidity not responsive to decreased flow rate, sample collected

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☒	0.4
1- 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☒	2.1
Ferrous Iron ☒	1.2

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	Well ID:	MW-58S
Client / Job Number:	Solutia, Inc. / 102.58.018	Date:	4/19/00
Weather:	cloudy, light wind, 45°	Time In: / Time Out:	

Well Information

Depth to Water:	(feet) 7.11	(from MP)
Total Depth:	(feet) 23.91	(from MP)
Length of Water Column:	(feet) 16.8	
Volume of Water in Well:	(gal) 2.74	
Three Well Volumes:	(gal) 8.22	

Well Type:	Flushmount ☐	Stick-Up ☑		
Well Material:	Stainless Steel ☐	PVC ☑		
Well Locked:	Yes ☑	No ☐		
Measuring Point Marked:	Yes ☑	No ☐		
Well Diameter:	1" ☐	2" ☑	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:	Horiba U-22	
Total Volume Removed:	(gal)	Did well go dry:	Yes ☐	No ☑

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	
	1133	1137	1141	1146	1150	1154	1158	1202	1206	1210
Volume Purged (gal)	0	0.75	1.5	2.5	3.5	5	6	7	8	8.75
Rate (mg/L/min)	350 ~230	230		200	200	200	200	200	200	200
Depth to Water (ft.)	8.94	9.94	9.06	9.14	9.18	9.21	9.28	9.30	9.32	9.31
pH	7.49	7.45	7.42	7.39	7.36	7.34	7.33	7.32	7.32	7.32
Temp. (C)	11.5	11.5	11.5	11.6	11.7	11.7	11.8	11.9	11.9	11.9
Conductivity (mS/cm)	0.351	0.349	0.349	0.352	0.355	0.357	0.359	0.360	0.360	0.360
Dissolved Oxygen	2.85	0.75	0.36	0.25	0.19	0.17	0.11	0.09	0.08	0.08
ORP (mV)	-51	-54	-74	-105	-121	-135	-140	-143	-145	-146
Turbidity (NTU)	13.1	8.0	9.2	10.6	9.0	8.7	6.8	6.1	6.6	7.3
Notes:										

Sampling Information

Analyses	#	Laboratory
VOCs	2	☑ STL (Savannah)
NA Parameter List		☑ STL (Savannah)
		☐

Sample ID: MW-58S		Sample Time: 1215	
MS/MSD:	Yes ☐	No ☑	
Duplicate:	Yes ☐	No ☑	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

initial purge - clear, colorless, no odor

- slowed down pump rate to try to reduce drawdown

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☐	0.5
1- 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☑	2.1 mg/L
Ferrous Iron ☐	1.6

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-93B
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/19/00
Weather:	Cloudy, light [illegible]	**Time In:**	**Time Out:**

Well Information

Depth to Water:	(feet) 4.66	(from MP)	Well Type:	Flushmount ☒ Stick-Up ☐
Total Depth:	(feet) 15.25	(from MP)	Well Material:	Stainless Steel ☐ PVC ☒
Length of Water Column:	(feet) 10.59		Well Locked:	Yes ☒ No ☐
Volume of Water in Well:	(gal) 1.73		Measuring Point Marked:	Yes ☒ No ☐
Three Well Volumes:	(gal) 5.18		Well Diameter:	1" ☐ 2" ☒ Other:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Duration of Purging:	(min) 33		
Average Pumping Rate:	(ml/min) 500	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 21 liters	Did well go dry:	Yes ☐ No ☒

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	1033	1037	1041	1045	1049	1053	1057	1101	1105
Volume Purged (~~gal~~) L	0	2	4	6	9		17	19	21
Rate (mg/L)	500	500	500	500	500	500	500	500	500
Depth to Water (ft.)	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72
pH	6.62	6.27	6.26	6.30	6.37	6.41	6.43	6.44	6.45
Temp. (C)	12.8	13.2	13.4	13.4	13.5	13.6	13.6	13.6	13.6
Conductivity (mS/cm)	0.654	0.675	0.717	0.763	0.814	0.850	0.869	0.881	0.886
Dissolved Oxygen	2.28	1.46	0.78	0.52	0.46	0.35	0.25	0.25	0.24
ORP (mV)	-207	-214	-212	-208	-199	-194	-193	-193	-192
Turbidity (NTU)	5.1	4.0	4.4	4.8	4.8	5.0	4.6	5.3	4.9
Notes:									

start 1032

1105

Sampling Information

Analyses	#	Laboratory
VOCs	3 ☒	STL (Savannah)
NA Parameter List	☐	STL (Savannah)
	☐	

Sample ID: MW-93B		Sample Time: 1110	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☐	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

initial purge - clear, colorless, odor

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☐	0.15
1- 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☐	6.0
Ferrous Iron ☐	4.4

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-96SF
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/19/00
Weather:	Cloudy/rainy day, 45°	**Time In:** 926	**Time Out:**

Well Information

Depth to Water:	(feet)	4.93 (from MP)
Total Depth:	(feet)	13.99 (from MP)
Length of Water Column:	(feet)	9.06
Volume of Water in Well:	(gal)	1.49
Three Well Volumes:	(gal)	4.48

Well Type:	Flushmount ☑		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☑	
Well Locked:	Yes ☑		No ☐	
Measuring Point Marked:	Yes ☑		No ☐	
Well Diameter:	1" ☐	2" ☑	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☑	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☑	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☑	Grundfos ☐	Other:

Duration of Pumping:	(min) 24		
Average Pumping Rate:	(ml/min) 300	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) ~7 Liters	Did well go dry:	Yes ☐ No ☑

Conversion Factors				
	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3875 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	932	936	940	944	948	952			
Volume Purged (gal)	0	2	3	4.25	5.5	6.75			
Rate (mg/L)	450	*	300	300	300	300			
Depth to Water (ft.)	6.68	*	6.34	6.30	6.29	6.29			
pH	11.42	11.4	11.35	11.30	11.26	11.22			
Temp. (C)	12.1	12.0	12.0	12.0	12.0	12.1			
Conductivity (mS/cm)	1.29	1.29	1.25	1.20	1.17	1.15			
Dissolved Oxygen	1.48	0.19	0.11	0.05	0.00	0.00			
ORP (mV)	-255	-267	-267	-270	-271	-273			
Turbidity (NTU)	5.5	3.6	4.6	3.6	3.7	4.1			
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs	2	☑ STL (Savannah)
NA Parameter List		☑ STL (Savannah)
		☐
Sample ID: MW-96SF	Sample Time: 1000	
MS/MSD:	Yes ☐	No ☑
Duplicate:	Yes ☐	No ☑
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Notes

* Drawing down quickly - slowed pump rate

purge water - clean, slight green-yellow → green and yellow

no odor at first, then odor

Field DO Analyses	
Range	Result
0 - 1 mg/L Test ☒	0.15
1 - 12 mg/L Test ☐	

Field Iron Analyses	
Test	Result
Total Iron ☒	0.15 mg/L
Ferrous Iron ☒	0.05 mg/L

Solutia, Indian Orchard Plant

Site *Event*

GROUND-WATER SAMPLING LOG

Sampling Personnel:	Michael Cobb / Jennifer Sandorf	**Well ID:**	MW-97S
Client / Job Number:	Solutia, Inc. / 102.58.018	**Date:**	4/19/00
Weather:	Slightly rainy, ~45°F	**Time In:**	803 **Time Out:**

Well Information

Depth to Water:	(feet) 4.16	(from MP)
Total Depth:	(feet) 27.46	(from MP)
Length of Water Column:	(feet) 23.3	
Volume of Water in Well:	(gal) 3.8	
Three Well Volumes:	(gal) 11.4	

Well Type:	Flushmount ☑	Stick-Up ☐		
Well Material:	Stainless Steel ☐	PVC ☑		
Well Locked:	Yes ☑	No ☐		
Measuring Point Marked:	Yes ☑	No ☐		
Well Diameter:	1" ☐	2" ☑	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:
Tubing/Bailer Material:	St. Steel ☐	Polyethylene ☒	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos ☐	Other:

Conversion Factors			
1" ID	2" ID	4" ID	6" ID
0.041	0.163	0.653	1.469

1 gal = 3.785 L =3875 ml = 0.1337 cubic feet

Duration of Pumping:	(min)		
Average Pumping Rate:	(ml/min) 400	Water-Quality Meter Type:	Horiba U-22
Total Volume Removed:	(gal) 7.5 Liters	Did well go dry:	Yes ☐ No ☒

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	806	810	814	819	823	~~853~~			
Volume Purged (gal) L	~~0.105~~	3	4.5	6.0	7.5				
Rate (mg/L)	400		400	400	400				
Depth to Water (ft.)	4.18	4.16	4.17	4.17	4.17				
pH	6.18	6.27	6.28	6.29	6.29				
Temp. (C)	13.5	13.4	13.4	13.4	13.4				
Conductivity (mS/cm)	0.435	0.431	0.432	0.434	0.438	0.			
Dissolved Oxygen	1.07	0.84	0.78	0.74	0.76				
ORP (mV)	280	274	267	262	259				
Turbidity (NTU)	25.8	12.8	8.6	5.2	4.7				
Notes:									

Sampling Information

Analyses	#	Laboratory
VOCs	2 ☑	STL (Savannah)
NA Parameter List	☑	STL (Savannah)
	☐	

Sample ID:	MW-97S	Sample Time:	905
MS/MSD:	Yes ☐	No ☑	
Duplicate:	Yes ☐	No ☑	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:			

Notes

Field DO Analyses		
Range		Result
0 - 1 mg/L Test	☒	0.8
1- 12 mg/L Test	☐	

Field Iron Analyses		
Test		Result
Total Iron	☒	0.2 mg/L
Ferrous Iron	☒	0.0 mg/L

Serial Number 01606

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

(X) 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
( ) 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
( ) 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
( ) 6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: Delta EGHA	PROJECT NO.: 10258.018	PROJECT LOCATION (STATE): MA	PAGE 1 OF
STL (LAB) PROJECT MANAGER: A. Stewart	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY (X) DATE DUE
CLIENT (SITE) PM: Gordon Kolb	CLIENT PHONE: (315) 744-9120	CLIENT FAX: (315) 749-2353	EXPEDITED REPORT DELIVERY (SURCHARGE) ( ) DATE DUE
CLIENT NAME: Blasland, Bouck + Lee	CLIENT EMAIL		
CLIENT ADDRESS: 2725 Rt. 20 West, Rt. 5, Pulaski, NY 13214			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
COMPANY CONTRACTING THIS WORK (if applicable): Delta Design Group, 130 Worcester St, Southboro, MA 01772			

REQUIRED ANALYSES / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	Sulfide	Ferrous Total	Ferrous Dissolved	TDC	Nitrate Nitrogen	TOC	Ammonia Nitrogen	Alkalinity		Total Solids	REMARKS
4/11/00	905	MW-97S		X				1	1	1	1	3	3	1	1			Label 4 Alta
	1000	MW-96SF		X				1	1	1	1	3	3	1	1			make + EDD to
	1110	MW-93B		X				1	1	1	1	3	3	1	1			Gordon Kolb (BBL)
	1215	MW-58S		X				1	1	1	1	3	3	1	1			send results only
	1445	MW-98D		X				1	1	1	1	3	3	1	1			[illegible]
	1545	MW-99S		X				1	1	1	1	3	3	1	1			[illegible]
	1645	MW-87S + MS/MSD		X				3	3	3	3	9	9	3	3			[illegible]
																		[illegible]
		Temperature Blank		X													X	lab filtered
		Trip Blank		X									X					
								93B and 99S were VOCs only										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4/12/00		[signature]	4/11/00	1830			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]								

LABORATORY USE ONLY Fed Ex # 8128 3101 2272

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:

CLIENTS FIELD COPY

Appendix L

Laboratory Analytical Results – Ground Water

L-1 November 1999
L-2 April 2000

L-1 November 1999

Savannah Laboratories
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LOG NO: S9-17841
Received: 19 NOV 99
Reported: 17 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#

PARAMETER

Methods: EPA SW-846, Update III.
*E99 = Aliphatic Hydrocarbon concentrations includes chlorobenzene which exceeds calibration run. A diluted analysis was not performed.

*F53 = Because surrogate recoveries were outside established limits, the sample was re-extracted and/or reanalyzed. Comparable results were obtained.

*F73 = Matrix spike recoveries were outside advisory limits due to matrix interference present in the sample.

*F82 = Insufficient sample volume was available to perform a batch-specific matrix spike. However, an LCS analyzed with the sample batch met control criteria.

Elizabeth F. Beauchamp, Project Manager

Final Page Of Report

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Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-34	Lab Control Standard % Recovery		

PARAMETER	17841-34
Chloride (325.2), mg/l	
Ammonia (as N) (350.1), mg/l	
Total Phosphorus (365.4), mg/l	
Total Organic Carbon (415.1), mg/l	
Sulfide (9030)	
Iron (6010)	
Manganese (6010)	
Iron (Dissolved) (6010)	
Manganese (Dissolved) (6010)	

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Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-34	Lab Control Standard % Recovery		

PARAMETER	17841-34
Volatiles by GC/MS (8260)	
1,1-Dichloroethene	106 %
Trichloroethene	104 %
Benzene	108 %
Toluene	108 %
Chlorobenzene	110 %
Surrogate - Toluene-d8	106 %
Surrogate - 4-Bromofluorobenzene	100 %
Surrogate - Dibromofluoromethane	102 %
Dilution Factor	1.0
Analysis Date	11.29.99
Batch ID	101129
Extractable Petroleum Hydrocarbons (MADEP EPH)	
Volatile Petroleum Hydrocarbons (MADEP VPH)	
Nitrite-N (353.2), mg/l	
Nitrate-N (353.2), mg/l	
Alkalinity (to pH 4.5) as CaCO3 (310.1)	
Sulfate as SO4 (375.4), mg/l	

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Reported: 17 JAN 00

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730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-29	Method Blank		
17841-30	Lab Control Standard % Recovery		
17841-31	Method Blank		
17841-32	Lab Control Standard % Recovery		
17841-33	Method Blank		

PARAMETER	17841-29	17841-30	17841-31	17841-32	17841-33
Sulfide (9030), mg/l	1.0U	72 %			
Dilution Factor	1	1	---	---	---
Prep Date	12.03.99	12.03.99	---	---	---
Analysis Date	12.07.99	12.07.99	---	---	---
Batch ID	1203A	1203A	---	---	---
Iron (6010)					
Manganese (6010)					
Iron (Dissolved) (6010)					
Manganese (Dissolved) (6010)					

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LOG NO: S9-17841
Received: 19 NOV 99
Reported: 17 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-29	Method Blank		
17841-30	Lab Control Standard % Recovery		
17841-31	Method Blank		
17841-32	Lab Control Standard % Recovery		
17841-33	Method Blank		

PARAMETER	17841-29	17841-30	17841-31	17841-32	17841-33
Extractable Petroleum Hydrocarbons (MADEP EPH)					
Volatile Petroleum Hydrocarbons (MADEP VPH)					
Nitrite-N (353.2), mg/l					
Nitrate-N (353.2), mg/l					
Alkalinity (to pH 4.5) as CaCO3 (310.1)					
Sulfate as SO4 (375.4), mg/l					
Chloride (325.2), mg/l					
Ammonia (as N) (350.1), mg/l					
Total Phosphorus (365.4), mg/l					
Total Organic Carbon (415.1), mg/l					

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Contract No.: S7219
CC: Caron Koll (BBL) Project: SI001/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-29	Method Blank		
17841-30	Lab Control Standard % Recovery		
17841-31	Method Blank		
17841-32	Lab Control Standard % Recovery		
17841-33	Method Blank		

PARAMETER	17841-29	17841-30	17841-31	17841-32	17841-33
Bromodichloromethane, ug/l	1.0U	---	1.0U	---	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	1.0U	---	1.0U
1,2-Dichloropropane, ug/l	1.0U	---	1.0U	---	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U	---	1.0U	---	1.0U
Trichloroethene, ug/l	1.0U	100 %	1.0U	102 %	1.0U
Dibromochloromethane, ug/l	1.0U	---	1.0U	---	1.0U
1,1,2-Trichloroethane, ug/l	1.0U	---	1.0U	---	1.0U
Benzene, ug/l	1.0U	104 %	1.0U	104 %	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U	---	1.0U	---	1.0U
Bromoform, ug/l	1.0U	---	1.0U	---	1.0U
2-Hexanone, ug/l	10U	---	10U	---	10U
4-Methyl-2-pentanone (MIBK), ug/l	10U	---	10U	---	10U
Tetrachloroethene, ug/l	1.0U	---	1.0U	---	1.0U
Toluene, ug/l	1.0U	104 %	1.0U	106 %	1.0U
Chlorobenzene, ug/l	1.0U	106 %	1.0U	108 %	1.0U
Ethylbenzene, ug/l	1.0U	---	1.0U	---	1.0U
Styrene, ug/l	1.0U	---	1.0U	---	1.0U
Xylenes, Total, ug/l	2.0U	---	2.0U	---	2.0U
Surrogate - Toluene-d8	106 %	104 %	104 %	106 %	106 %
Surrogate - 4-Bromofluorobenzene	104 %	104 %	102 %	102 %	104 %
Surrogate - Dibromofluoromethane	104 %	104 %	102 %	104 %	104 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	11.26.99	11.26.99	11.28.99	11.28.99	11.29.99
Batch ID	101126	101126	101128	101128	101129

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Received: 19 NOV 99
Reported: 17 JAN 00

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Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-29	Method Blank		
17841-30	Lab Control Standard % Recovery		
17841-31	Method Blank		
17841-32	Lab Control Standard % Recovery		
17841-33	Method Blank		

PARAMETER	17841-29	17841-30	17841-31	17841-32	17841-33
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	1.0U	---	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U	---	1.0U	---	1.0U
Vinyl chloride, ug/l	1.0U	---	1.0U	---	1.0U
Chloroethane, ug/l	1.0U	---	1.0U	---	1.0U
Methylene chloride (Dichloromethane), ug/l	0.79J	---	5.0U	---	5.0U
Acetone, ug/l	25U	---	25U	---	25U
Carbon disulfide, ug/l	1.0U	---	1.0U	---	1.0U
1,1-Dichloroethene, ug/l	1.0U	108 %	1.0U	112 %	1.0U
1,1-Dichloroethane, ug/l	1.0U	---	1.0U	---	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U	---	1.0U	---	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U	---	1.0U	---	1.0U
Chloroform, ug/l	1.0U	---	1.0U	---	1.0U
1,2-Dichloroethane, ug/l	1.0U	---	1.0U	---	1.0U
2-Butanone (MEK), ug/l	10U	---	10U	---	10U
1,1,1-Trichloroethane, ug/l	1.0U	---	1.0U	---	1.0U
Carbon tetrachloride, ug/l	1.0U	---	1.0U	---	1.0U

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Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-24	MS Accuracy Advisory Limit (%R)		SI006
17841-25	Precision (%RPD) MS/MSD		SI006
17841-26	MS Precision Advisory Limit (%RPD)		SI006
17841-27	Method Blank		
17841-28	Lab Control Standard % Recovery		

PARAMETER	17841-24	17841-25	17841-26	17841-27	17841-28
Iron (6010)					
Iron, %	75-125 %	2.5 %	<20 %	---	---
Manganese (6010)					
Manganese, %	75-125 %	1.7 %	<20 %	---	---
Iron (Dissolved) (6010)					
Iron (Dissolved), %	75-125 %	2.5 %	<20 %	---	---
Manganese (Dissolved) (6010)					
Manganese (Dissolved), %	75-125 %	1.7 %	<20 %	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-24	MS Accuracy Advisory Limit (%R)		SIO06
17841-25	Precision (%RPD) MS/MSD		SIO06
17841-26	MS Precision Advisory Limit (%RPD)		SIO06
17841-27	Method Blank		
17841-28	Lab Control Standard % Recovery		

PARAMETER	17841-24	17841-25	17841-26	17841-27	17841-28
Nitrite-N (353.2), %	80-120 %	1.8 %	<30 %		
Nitrate-N (353.2), %	80-120 %	1.6 %	<30 %		
Alkalinity (to pH 4.5) as CaCO3 (310.1), %	---	---	---		
Sulfate as SO4 (375.4), %	75-125 %	0.84 %	<30 %		
Chloride (325.2), %	85-115 %	5.3 %	<30 %		
Ammonia (as N) (350.1), %	85-115 %	1.1 %	<30 %		
Total Phosphorus (365.4), %	60-140 %	1.0 %	<40 %		
Total Organic Carbon (415.1), %	80-120 %	1.0 %	<25 %		
Sulfide (9030), %	*F82	*F82	*F82	1.0U	72 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	12.03.99	12.03.99
Analysis Date	---	---	---	12.07.99	12.07.99
Batch ID	---	---	---	1203A	1203A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-24	MS Accuracy Advisory Limit (%R)		SI006
17841-25	Precision (%RPD) MS/MSD		SI006
17841-26	MS Precision Advisory Limit (%RPD)		SI006
17841-27	Method Blank		
17841-28	Lab Control Standard % Recovery		

PARAMETER	17841-24	17841-25	17841-26	17841-27	17841-28
Extractable Petroleum Hydrocarbons (MADEP EPH)					
C9-C18 Aliphatic Hydrocarbons, %	40-140 %	8.4 %	<40 %	---	---
C19-C36 Aliphatic Hydrocarbons, %	40-140 %	0 %	<40 %	---	---
C11-C22 Aromatic Hydrocarbons, %	40-140 %	5.6 %	<40 %	---	---
Surrogate - 1-Chloro-octadecane	40-140 %	---	---	---	---
Surrogate - o-Terphenyl	40-140 %	---	---	---	---
Surrogate - 2-Fluorobiphenyl	40-140 %	---	---	---	---
Surrogate-2-Bromonaphthalene	40-140 %	---	---	---	---
Batch ID	---	1124D	---	---	---
Volatile Petroleum Hydrocarbons (MADEP VPH)					
C5-C8 Aliphatic Hydrocarbons, %	70-130 %	0.94 %	<25 %	---	---
C9-C12 Aliphatic Hydrocarbons, %	70-130 %	21 %	<25 %	---	---
C9-C10 Aromatic Hydrocarbons, %	70-130 %	17 %	<25 %	---	---
Benzene, %	70-130 %	6.3 %	<24 %	---	---
Ethylbenzene, %	70-130 %	7.0 %	<27 %	---	---
Batch ID	---	1127A	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-24	MS Accuracy Advisory Limit (%R)		SIO06
17841-25	Precision (%RPD) MS/MSD		SIO06
17841-26	MS Precision Advisory Limit (%RPD)		SIO06
17841-27	Method Blank		
17841-28	Lab Control Standard % Recovery		

PARAMETER	17841-24	17841-25	17841-26	17841-27	17841-28
2-Butanone (MEK), %	---	---	---	10U	---
1,1,1-Trichloroethane, %	---	---	---	1.0U	---
Carbon tetrachloride, %	---	---	---	1.0U	---
Bromodichloromethane, %	---	---	---	1.0U	---
1,1,2,2-Tetrachloroethane, %	---	---	---	1.0U	---
1,2-Dichloropropane, %	---	---	---	1.0U	---
trans-1,3-Dichloropropene, %	---	---	---	1.0U	---
Dibromochloromethane, %	---	---	---	1.0U	---
1,1,2-Trichloroethane, %	---	---	---	1.0U	---
cis-1,3-Dichloropropene, %	---	---	---	1.0U	---
Bromoform, %	---	---	---	1.0U	---
2-Hexanone, %	---	---	---	3.8J	---
4-Methyl-2-pentanone (MIBK), %	---	---	---	3.2J	---
Tetrachloroethene, %	---	---	---	1.0U	---
Ethylbenzene, %	---	---	---	1.0U	---
Styrene, %	---	---	---	1.0U	---
Xylenes, Total, %	---	---	---	2.0U	---
Surrogate - Toluene-d8	---	---	---	100 %	100 %
Surrogate - 4-Bromofluorobenzene	---	---	---	98 %	100 %
Surrogate - Dibromofluoromethane	---	---	---	98 %	100 %
Dilution Factor	---	---	---	1.0	1.0
Analysis Date	---	---	---	11.24.99	11.24.99
Batch ID	---	---	---	201124	201124

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-24	MS Accuracy Advisory Limit (%R)		SIO06
17841-25	Precision (%RPD) MS/MSD		SIO06
17841-26	MS Precision Advisory Limit (%RPD)		SIO06
17841-27	Method Blank		
17841-28	Lab Control Standard % Recovery		

PARAMETER	17841-24	17841-25	17841-26	17841-27	17841-28
Volatiles by GC/MS (8260)					
1,1-Dichloroethene, %	46-147 %	8 %	<30 %	1.0U	100 %
Trichloroethene, %	56-143 %	6 %	<35 %	1.0U	98 %
Benzene, %	62-135 %	4 %	<37 %	1.0U	100 %
Toluene, %	68-131 %	4 %	<33 %	1.0U	100 %
Chlorobenzene, %	72-127 %	15 %	<22 %	1.0U	102 %
Chloromethane, %	---	---	---	1.0U	---
Bromomethane (Methyl bromide), %	---	---	---	1.0U	---
Vinyl chloride, %	---	---	---	1.0U	---
Chloroethane, %	---	---	---	1.0U	---
Methylene chloride (Dichloromethane), %	---	---	---	5.0U	---
Acetone, %	---	---	---	25U	---
Carbon disulfide, %	---	---	---	1.0U	---
1,1-Dichloroethane, %	---	---	---	1.0U	---
cis-1,2-Dichloroethene, %	---	---	---	1.0U	---
trans-1,2-Dichloroethene, %	---	---	---	1.0U	---
Chloroform, %	---	---	---	1.0U	---
1,2-Dichloroethane, %	---	---	---	1.0U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.010U	95 %	75-125 %	119 %	121 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.02.99	12.02.99
Batch ID	1130G	1130G	---	1130G	1130G

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Iron (6010)					
Iron, mg/l	0.050U	95 %	75-125 %	120 %	123 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.02.99	12.02.99
Batch ID	1130G	1130G	---	1130G	1130G
Manganese (6010)					
Manganese, mg/l	0.010U	95 %	75-125 %	119 %	121 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.02.99	12.02.99
Batch ID	1130G	1130G	---	1130G	1130G
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.050U	95 %	75-125 %	120 %	123 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.02.99	12.02.99
Batch ID	1130G	1130G	---	1130G	1130G

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Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SI006
17841-20	Lab Control Standard % Recovery		SI006
17841-21	LCS Accuracy Control Limit (%R)		SI006
17841-22	Matrix Spike % Recovery		SI006
17841-23	Matrix Spike Duplicate % Recovery		SI006

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Total Phosphorus (365.4), mg/l	0.10U	97 %	60-140 %	95 %	96 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.26.99	11.26.99	---	11.26.99	11.26.99
Analysis Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Batch ID	1126B	1126B	---	1126B	1126B
Total Organic Carbon (415.1), mg/l	1.0U	92 %	80-120 %	97 %	98 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.04.99	12.04.99	---	12.04.99	12.04.99
Analysis Date	12.04.99	12.04.99	---	12.04.99	12.04.99
Batch ID	1204A	1204A	---	1204A	1204A
Sulfide (9030), mg/l	1.3	68 %	50-150 %	*F82	*F82
Dilution Factor	1	1	---	---	---
Prep Date	11.24.99	11.24.99	---	---	---
Analysis Date	11.24.99	11.24.99	---	---	---
Batch ID	1124A	1124A	---	---	---

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Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Sulfate as SO4 (375.4), mg/l	2.2B	78 %	75-125 %	118 %	119 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1201A	1201A	---	1201A	1201A
Chloride (325.2), mg/l	1.0U	91 %	85-115 %	97 %	92 %
Dilution Factor	1.0	1.0	---	2.0	2.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Batch ID	1130C	1130C	---	1130E	1130E
Ammonia (as N) (350.1), mg/l	0.024B	107 %	85-115 %	89 %	88 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.29.99	11.29.99	---	11.29.99	11.29.99
Analysis Date	11.29.99	11.29.99	---	11.29.99	11.29.99
Batch ID	1129B	1129B	---	1129B	1129B

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LOG NO: S9-17841
Received: 19 NOV 99
Reported: 17 JAN 00

Mr. Roy Hart
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730 Worcester Street
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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Nitrite-N (353.2), mg/l	0.050U	99 %	80-120 %	110 %	112 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.19.99	11.19.99	---	11.19.99	11.19.99
Analysis Date	11.19.99	11.19.99	---	11.19.99	11.19.99
Batch ID	1119B	1119B	---	1119B	1119B
Nitrate-N (353.2), mg/l	0.015B	100 %	80-120 %	61 %	62 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.19.99	11.19.99	---	11.19.99	11.19.99
Analysis Date	11.19.99	11.19.99	---	11.19.99	11.19.99
Batch ID	1202A	1202A	---	1202A	1202A
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	1.0U	102 %	80-120 %	---	---
Dilution Factor	1.0	1.0	---	---	---
Prep Date	11.23.99	11.23.99	---	---	---
Analysis Date	11.23.99	11.23.99	---	---	---
Batch ID	1123A	1123A	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Volatile Petroleum Hydrocarbons (MADEP VPH)					
C5-C8 Aliphatic Hydrocarbons, mg/l	<0.040	97 %	70-130 %	107 %	106 %
C9-C12 Aliphatic Hydrocarbons, mg/l	<0.010	102 %	70-130 %	160 %*F73	130 %
C9-C10 Aromatic Hydrocarbons, mg/l	<0.010	96 %	70-130 %	117 %	99 %
Benzene, mg/l	<0.0050	116 %	70-130 %	130 %	122 %
Toluene, mg/l	<0.015	---	---	---	---
Ethylbenzene, mg/l	<0.0050	97 %	70-130 %	104 %	97 %
Xylenes, Total, mg/l	<0.030	---	---	---	---
Surrogate-a,a,a-Trifluorotoluene (PID)	105 %	102 %	---	98 %	100 %
Surrogate-a,a,a-Trifluorotoluene (FID)	109 %	104 %	---	97 %	102 %
Dilution Factor	1.0	---	---	---	---
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1127A	1127A	---	1127A	1127A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SI006
17841-20	Lab Control Standard % Recovery		SI006
17841-21	LCS Accuracy Control Limit (%R)		SI006
17841-22	Matrix Spike % Recovery		SI006
17841-23	Matrix Spike Duplicate % Recovery		SI006

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Benzo(b,k)fluoranthene, mg/l	<0.010	---	---	---	---
Benzo(a)pyrene, mg/l	<0.010	---	---	---	---
Indeno(1,2,3-cd)pyrene, mg/l	<0.010	---	---	---	---
Dibenzo(a,h)anthracene, mg/l	<0.010	---	---	---	---
Benzo(g,h,i)perylene, mg/l	<0.010	---	---	---	---
Surrogate - 1-Chloro-octadecane	17 %*F53	25 %*F53	40-140 %	33 %*F53	37 %*F53
Surrogate - o-Terphenyl	72 %	82 %	40-140 %	89 %	80 %
Surrogate - 2-Fluorobiphenyl	94 %	93 %	40-140 %	93 %	97 %
Surrogate-2-Bromonaphthalene	86 %	82 %	40-140 %	86 %	89 %
Dilution Factor	1.0	---	---	1.0	1.0
Prep Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Analysis Date	12.08.99	12.07.99	---	12.07.99	12.07.99
Batch ID	1124D	1124D	---	1124D	1124D

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Extractable Petroleum Hydrocarbons (MADEP EPH)					
C9-C18 Aliphatic Hydrocarbons, mg/l	<0.10	76 %	40-140 %	87 %	80 %
C19-C36 Aliphatic Hydrocarbons, mg/l	<0.10	43 %	40-140 %	54 %	54 %
C11-C22 Aromatic Hydrocarbons, mg/l	<0.10	80 %	40-140 %	110 %	104 %
Naphthalene, mg/l	<0.010	---	---	---	---
2-Methylnaphthalene, mg/l	<0.010	---	---	---	---
Phenanthrene, mg/l	<0.010	---	---	---	---
Acenaphthylene, mg/l	<0.010	---	---	---	---
Acenaphthene, mg/l	<0.010	---	---	---	---
Fluorene, mg/l	<0.010	---	---	---	---
Anthracene, mg/l	<0.010	---	---	---	---
Fluoranthene, mg/l	<0.010	---	---	---	---
Pyrene, mg/l	<0.010	---	---	---	---
Chrysene + Benzo(a)anthracene, mg/l	<0.010	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SI006
17841-20	Lab Control Standard % Recovery		SI006
17841-21	LCS Accuracy Control Limit (%R)		SI006
17841-22	Matrix Spike % Recovery		SI006
17841-23	Matrix Spike Duplicate % Recovery		SI006

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Bromodichloromethane, ug/l	1.0U	---	---	---	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	---	---	---
1,2-Dichloropropane, ug/l	1.0U	---	---	---	---
trans-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Trichloroethene, ug/l	1.0U	108 %	56-143 %	98 %	104 %
Dibromochloromethane, ug/l	1.0U	---	---	---	---
1,1,2-Trichloroethane, ug/l	1.0U	---	---	---	---
Benzene, ug/l	1.0U	112 %	62-135 %	102 %	106 %
cis-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Bromoform, ug/l	1.0U	---	---	---	---
2-Hexanone, ug/l	4.3J	---	---	---	---
4-Methyl-2-pentanone (MIBK), ug/l	3.5J	---	---	---	---
Tetrachloroethene, ug/l	1.0U	---	---	---	---
Toluene, ug/l	1.0U	112 %	68-131 %	106 %	110 %
Chlorobenzene, ug/l	1.0U	112 %	72-127 %	140 %X	120 %
Ethylbenzene, ug/l	1.0U	---	---	---	---
Styrene, ug/l	1.0U	---	---	---	---
Xylenes, Total, ug/l	2.0U	---	---	---	---
Surrogate - Toluene-d8	108 %	106 %	77-122 %	---	---
Surrogate - 4-Bromofluorobenzene	102 %	102 %	74-126 %	---	---
Surrogate - Dibromofluoromethane	104 %	104 %	70-130 %	---	---
Dilution Factor	1.0	1.0	---	10.0	10.0
Analysis Date	11.24.99	11.24.99	---	11.29.99	11.29.99
Batch ID	101124	101124	---	101129	101129

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-19	Method Blank		SIO06
17841-20	Lab Control Standard % Recovery		SIO06
17841-21	LCS Accuracy Control Limit (%R)		SIO06
17841-22	Matrix Spike % Recovery		SIO06
17841-23	Matrix Spike Duplicate % Recovery		SIO06

PARAMETER	17841-19	17841-20	17841-21	17841-22	17841-23
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	---	---	---
Bromomethane (Methyl bromide), ug/l	1.0U	---	---	---	---
Vinyl chloride, ug/l	1.0U	---	---	---	---
Chloroethane, ug/l	1.0U	---	---	---	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---	---	---	---
Acetone, ug/l	25U	---	---	---	---
Carbon disulfide, ug/l	1.0U	---	---	---	---
1,1-Dichloroethene, ug/l	1.0U	112 %	46-147 %	98 %	106 %
1,1-Dichloroethane, ug/l	1.0U	---	---	---	---
cis-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
trans-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
Chloroform, ug/l	1.0U	---	---	---	---
1,2-Dichloroethane, ug/l	1.0U	---	---	---	---
2-Butanone (MEK), ug/l	10U	---	---	---	---
1,1,1-Trichloroethane, ug/l	1.0U	---	---	---	---
Carbon tetrachloride, ug/l	1.0U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-18	Trip Blank	11-18-99	SI006

PARAMETER	17841-18
Volatile Petroleum Hydrocarbons (MADEP VPH)	
C5-C8 Aliphatic Hydrocarbons, mg/l	<0.040
C9-C12 Aliphatic Hydrocarbons, mg/l	<0.010
C9-C10 Aromatic Hydrocarbons, mg/l	<0.010
Benzene, mg/l	<0.0050
Toluene, mg/l	<0.0050
Ethylbenzene, mg/l	<0.015
Xylenes, Total, mg/l	<0.030
Surrogate-a,a,a-Trifluorotoluene (PID)	100 %
Surrogate-a,a,a-Trifluorotoluene (FID)	98 %
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	1127A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-16	MW-105S	11-18-99/11:00	SIO06
17841-17	GW-DUP-3	11-18-99	SIO06

PARAMETER	17841-16	17841-17
Xylenes, Total, mg/l	<0.030	<0.030
Surrogate-a,a,a-Trifluoroto luene (PID)	98 %	105 %
Surrogate-a,a,a-Trifluoroto luene (FID)	97 %	96 %
Dilution Factor	1.0	1.0
Analysis Date	12.01.99	12.01.99
Batch ID	1127A	1127A

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-16	MW-105S	11-18-99/11:00	SIO06
17841-17	GW-DUP-3	11-18-99	SIO06

PARAMETER	17841-16	17841-17
Dibenzo(a,h)anthracene, mg/l	<0.010	<0.010
Benzo(g,h,i)perylene, mg/l	<0.010	<0.010
Surrogate - 1-Chloro-octadecane	42 %	42 %
Surrogate - o-Terphenyl	87 %	88 %
Surrogate - 2-Fluorobiphenyl	93 %	98 %
Surrogate-2-Bromonaphthalene	90 %	93 %
Dilution Factor	1.0	1.0
Prep Date	11.24.99	11.24.99
Analysis Date	12.07.99	12.07.99
Batch ID	1124D	1124D
Volatile Petroleum Hydrocarbons (MADEP VPH)		
C5-C8 Aliphatic Hydrocarbons, mg/l	<0.040	<0.040
C9-C12 Aliphatic Hydrocarbons, mg/l	3.0*E99	3.3*E99
C9-C10 Aromatic Hydrocarbons, mg/l	<0.010	0.010
Benzene, mg/l	19	11
Toluene, mg/l	<0.0050	<0.0050
Ethylbenzene, mg/l	<0.015	<0.015

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-16	MW-105S	11-18-99/11:00	SIO06
17841-17	GW-DUP-3	11-18-99	SIO06

PARAMETER	17841-16	17841-17
Extractable Petroleum Hydrocarbons (MADEP EPH)		
C9-C18 Aliphatic Hydrocarbons, mg/l	<0.10	<0.10
C19-C36 Aliphatic Hydrocarbons, mg/l	<0.10	<0.10
C11-C22 Aromatic Hydrocarbons, mg/l	<0.10	<0.10
Naphthalene, mg/l	<0.010	<0.010
2-Methylnaphthalene, mg/l	<0.010	<0.010
Phenanthrene, mg/l	<0.010	<0.010
Acenaphthylene, mg/l	<0.010	<0.010
Acenaphthene, mg/l	<0.010	<0.010
Fluorene, mg/l	<0.010	<0.010
Anthracene, mg/l	<0.010	<0.010
Fluoranthene, mg/l	<0.010	<0.010
Pyrene, mg/l	<0.010	<0.010
Chrysene + Benzo(a)anthracene, mg/l	<0.010	<0.010
Benzo(b,k)fluoranthene, mg/l	<0.010	<0.010
Benzo(a)pyrene, mg/l	<0.010	<0.010
Indeno(1,2,3-cd)pyrene, mg/l	<0.010	<0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-15	MW-93A	11-18-99/16:35	SI006
17841-15-DL	MW-93A	11-18-99/16:35	SI006
17841-15-RE	MW-93A	11-18-99/16:35	SI006

PARAMETER	17841-15	17841-15-DL	17841-15-RE
Iron (Dissolved) (6010)			
Iron (Dissolved), mg/l	0.050U	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.02.99	---	---
Batch ID	1130G	---	---
Manganese (Dissolved) (6010)			
Manganese (Dissolved), mg/l	1.1	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.02.99	---	---
Batch ID	1130G	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-15	MW-93A	11-18-99/16:35	SIO06
17841-15-DL	MW-93A	11-18-99/16:35	SIO06
17841-15-RE	MW-93A	11-18-99/16:35	SIO06

PARAMETER	17841-15	17841-15-DL	17841-15-RE
Sulfide (9030), mg/l	1.6		1.0U
Dilution Factor	1	---	1
Prep Date	11.24.99	---	12.03.99
Analysis Date	11.24.99	---	12.07.99
Batch ID	1124A	---	1203A
Iron (6010)			
Iron, mg/l	1.7	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.02.99	---	---
Batch ID	1130G	---	---
Manganese (6010)			
Manganese, mg/l	1.2	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.02.99	---	---
Batch ID	1130G	---	---

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LOG NO: S9-17841
Received: 19 NOV 99
Reported: 17 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-15	MW-93A	11-18-99/16:35	SIO06
17841-15-DL	MW-93A	11-18-99/16:35	SIO06
17841-15-RE	MW-93A	11-18-99/16:35	SIO06

PARAMETER	17841-15	17841-15-DL	17841-15-RE
Chloride (325.2), mg/l	170		
Dilution Factor	2	---	---
Prep Date	11.30.99	---	---
Analysis Date	11.30.99	---	---
Batch ID	1130E	---	---
Ammonia (as N) (350.1), mg/l	1.0		
Dilution Factor	1	---	---
Prep Date	11.29.99	---	---
Analysis Date	11.29.99	---	---
Batch ID	1129B	---	---
Total Phosphorus (365.4), mg/l	0.12		
Dilution Factor	1	---	---
Prep Date	11.26.99	---	---
Analysis Date	11.30.99	---	---
Batch ID	1126B	---	---
Total Organic Carbon (415.1), mg/l	2.4		
Dilution Factor	1.0	---	---
Prep Date	12.04.99	---	---
Analysis Date	12.04.99	---	---
Batch ID	1204A	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-15	MW-93A	11-18-99/16:35	SI006
17841-15-DL	MW-93A	11-18-99/16:35	SI006
17841-15-RE	MW-93A	11-18-99/16:35	SI006

PARAMETER	17841-15	17841-15-DL	17841-15-RE
Nitrite-N (353.2), mg/l	0.050U		
Dilution Factor	1.0	---	---
Prep Date	11.19.99	---	---
Analysis Date	11.19.99	---	---
Batch ID	1119B	---	---
Nitrate-N (353.2), mg/l	0.050U		
Dilution Factor	1.0	---	---
Prep Date	11.19.99	---	---
Analysis Date	11.19.99	---	---
Batch ID	1202A	---	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	210		
Dilution Factor	1.0	---	---
Prep Date	11.23.99	---	---
Analysis Date	11.23.99	---	---
Batch ID	1123A	---	---
Sulfate as SO4 (375.4), mg/l	19		
Dilution Factor	1.0	---	---
Prep Date	12.01.99	---	---
Analysis Date	12.01.99	---	---
Batch ID	1201A	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-15	MW-93A	11-18-99/16:35	SIO06
17841-15-DL	MW-93A	11-18-99/16:35	SIO06
17841-15-RE	MW-93A	11-18-99/16:35	SIO06

PARAMETER	17841-15	17841-15-DL	17841-15-RE
1,2-Dichloropropane, ug/l	1.0U	50U	---
trans-1,3-Dichloropropene, ug/l	1.0U	50U	---
Trichloroethene, ug/l	1.0U	50U	---
Dibromochloromethane, ug/l	1.0U	50U	---
1,1,2-Trichloroethane, ug/l	1.0U	50U	---
Benzene, ug/l	11	50U	---
cis-1,3-Dichloropropene, ug/l	1.0U	50U	---
Bromoform, ug/l	1.0U	50U	---
2-Hexanone, ug/l	10U	500U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	500U	---
Tetrachloroethene, ug/l	1.0U	50U	---
Toluene, ug/l	22	26JD	---
Chlorobenzene, ug/l	0.88J	50U	---
Ethylbenzene, ug/l	410E	160D	---
Styrene, ug/l	1.0U	50U	---
Xylenes, Total, ug/l	2.0U	100U	---
Surrogate - Toluene-d8	106 %	106 %	---
Surrogate - 4-Bromofluorobenzene	102 %	102 %	---
Surrogate - Dibromofluoromethane	104 %	102 %	---
Dilution Factor	1.0	50.0	---
Analysis Date	11.24.99	11.26.99	---
Batch ID	101124	101126	---
NIST Library Search (VOC-TIC)	*		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-15	MW-93A	11-18-99/16:35	SIO06
17841-15-DL	MW-93A	11-18-99/16:35	SIO06
17841-15-RE	MW-93A	11-18-99/16:35	SIO06

PARAMETER	17841-15	17841-15-DL	17841-15-RE
Volatiles by GC/MS (8260)			
Chloromethane, ug/l	1.0U	50U	---
Bromomethane (Methyl bromide), ug/l	1.0U	50U	---
Vinyl chloride, ug/l	1700E	4700D	---
Chloroethane, ug/l	1.0U	50U	---
Methylene chloride (Dichloromethane), ug/l	5.0U	250U	---
Acetone, ug/l	25U	1200U	---
Carbon disulfide, ug/l	1.0U	50U	---
1,1-Dichloroethene, ug/l	1.0U	50U	---
1,1-Dichloroethane, ug/l	1.0U	50U	---
cis-1,2-Dichloroethene, ug/l	1.3	50U	---
trans-1,2-Dichloroethene, ug/l	1.0U	50U	---
Chloroform, ug/l	1.0U	50U	---
1,2-Dichloroethane, ug/l	1.0U	50U	---
2-Butanone (MEK), ug/l	10U	500U	---
1,1,1-Trichloroethane, ug/l	1.0U	50U	---
Carbon tetrachloride, ug/l	1.0U	50U	---
Bromodichloromethane, ug/l	1.0U	50U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	50U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-12-DL	MW-105S	11-18-99/11:00	SIO06
17841-13	MW-89D	11-18-99/13:35	SIO06
17841-13-DL	MW-89D	11-18-99/13:35	SIO06
17841-14	MW-93B (SHALLOW)	11-18-99/15:30	SIO06

PARAMETER	17841-12-DL	17841-13	17841-13-DL	17841-14
NIST Library Search (VOC-TIC)		*		*

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-12-DL	MW-105S	11-18-99/11:00	SI006
17841-13	MW-89D	11-18-99/13:35	SI006
17841-13-DL	MW-89D	11-18-99/13:35	SI006
17841-14	MW-93B (SHALLOW)	11-18-99/15:30	SI006

PARAMETER	17841-12-DL	17841-13	17841-13-DL	17841-14
1,2-Dichloropropane, ug/l	20U	1.0U	2.0U	1.0U
trans-1,3-Dichloropropene, ug/l	20U	1.0U	2.0U	1.0U
Trichloroethene, ug/l	20U	1.0U	2.0U	1.0U
Dibromochloromethane, ug/l	20U	1.0U	2.0U	1.0U
1,1,2-Trichloroethane, ug/l	20U	1.0U	2.0U	1.0U
Benzene, ug/l	12DJ	4.8	2.8D	1.0U
cis-1,3-Dichloropropene, ug/l	20U	1.0U	2.0U	1.0U
Bromoform, ug/l	20U	1.0U	2.0U	1.0U
2-Hexanone, ug/l	200U	10U	20U	10U
4-Methyl-2-pentanone (MIBK), ug/l	200U	10U	20U	10U
Tetrachloroethene, ug/l	20U	1.0U	2.0U	1.0U
Toluene, ug/l	20U	0.36J	0.84JD	1.0U
Chlorobenzene, ug/l	3300D	350E	260D	0.96J
Ethylbenzene, ug/l	20U	1.0U	2.0U	1.0U
Styrene, ug/l	20U	1.0U	2.0U	1.0U
Xylenes, Total, ug/l	40U	2.0U	4.0U	2.0U
Surrogate - Toluene-d8	106 %	106 %	106 %	108 %
Surrogate - 4-Bromofluorobenzene	102 %	98 %	102 %	102 %
Surrogate - Dibromofluoromethane	106 %	100 %	104 %	100 %
Dilution Factor	20.0	1.0	2.0	1.0
Analysis Date	11.28.99	11.24.99	11.25.99	11.25.99
Batch ID	101128	101124	201124	201124

Could this be a very low part of compound

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Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-12-DL	MW-105S	11-18-99/11:00	SIO06
17841-13	MW-89D	11-18-99/13:35	SIO06
17841-13-DL	MW-89D	11-18-99/13:35	SIO06
17841-14	MW-93B (SHALLOW)	11-18-99/15:30	SIO06

PARAMETER	17841-12-DL	17841-13	17841-13-DL	17841-14
Volatiles by GC/MS (8260)				
Chloromethane, ug/l	20U	1.0U	2.0U	1.0U
Bromomethane (Methyl bromide), ug/l	20U	1.0U	2.0U	1.0U
Vinyl chloride, ug/l	20U	1.0U	2.0U	1.0U
Chloroethane, ug/l	20U	1.0U	2.0U	1.0U
Methylene chloride (Dichloromethane), ug/l	100U	5.0U	10U	5.0U
Acetone, ug/l	500U	25U	50U	25U
Carbon disulfide, ug/l	20U	1.0U	2.0U	1.0U
1,1-Dichloroethene, ug/l	20U	1.0U	2.0U	1.0U
1,1-Dichloroethane, ug/l	20U	1.0U	2.0U	1.0U
cis-1,2-Dichloroethene, ug/l	20U	1.0U	2.0U	1.0U
trans-1,2-Dichloroethene, ug/l	20U	1.0U	2.0U	1.0U
Chloroform, ug/l	20U	1.0U	2.0U	1.0U
1,2-Dichloroethane, ug/l	20U	1.0U	2.0U	1.0U
2-Butanone (MEK), ug/l	200U	10U	20U	10U
1,1,1-Trichloroethane, ug/l	20U	1.0U	2.0U	1.0U
Carbon tetrachloride, ug/l	20U	1.0U	2.0U	1.0U
Bromodichloromethane, ug/l	20U	1.0U	2.0U	1.0U
1,1,2,2-Tetrachloroethane, ug/l	20U	1.0U	2.0U	1.0U

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-8-DL	MW-90S	11-17-99/08:25	SIO06
17841-9	GW-DUP-2	11-17-99	SIO06
17841-10	TRIP BLANK (945C)	11-17-99	SIO06
17841-11	MW-80S	11-18-99/09:30	SIO06
17841-12	MW-105S	11-18-99/11:00	SIO06

PARAMETER	17841-8-DL	17841-9	17841-10	17841-11	17841-12
NIST Library Search (VOC-TIC)	*	*	*	*	*

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17841-9	GW-DUP-2	11-17-99	SIO06
17841-10	TRIP BLANK (945C)	11-17-99	SIO06
17841-11	MW-80S	11-18-99/09:30	SIO06
17841-12	MW-105S	11-18-99/11:00	SIO06

PARAMETER	17841-8-DL	17841-9	17841-10	17841-11	17841-12
1,1,2,2-Tetrachloroethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
1,2-Dichloropropane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
trans-1,3-Dichloropropene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Trichloroethene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Dibromochloromethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
1,1,2-Trichloroethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Benzene, ug/l	45D	1.0U	1.0U	1.0U	11
cis-1,3-Dichloropropene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Bromoform, ug/l	20U	1.0U	1.0U	1.0U	2.0U
2-Hexanone, ug/l	200U	10U	10U	10U	20U
4-Methyl-2-pentanone (MIBK), ug/l	200U	10U	10U	10U	20U
Tetrachloroethene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Toluene, ug/l	6.8JD	1.2	1.0U	1.0U	1.2J
Chlorobenzene, ug/l	3500D	1.0U	1.0U	0.84J	990E
Ethylbenzene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Styrene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Xylenes, Total, ug/l	40U	2.0U	2.0U	2.0U	4.0U
Surrogate - Toluene-d8	104 %	100 %	100 %	106 %	106 %
Surrogate - 4-Bromofluorobenzene	104 %	98 %	98 %	104 %	92 %
Surrogate - Dibromofluoromethane	102 %	98 %	98 %	102 %	102 %
Dilution Factor	20.0	1.0	1.0	1.0	2.0
Analysis Date	11.25.99	11.24.99	11.24.99	11.24.99	11.24.99
Batch ID	201124	101124	101124	101124	101124

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-8-DL	MW-90S	11-17-99/08:25	SIO06
17841-9	GW-DUP-2	11-17-99	SIO06
17841-10	TRIP BLANK (945C)	11-17-99	SIO06
17841-11	MW-80S	11-18-99/09:30	SIO06
17841-12	MW-105S	11-18-99/11:00	SIO06

PARAMETER	17841-8-DL	17841-9	17841-10	17841-11	17841-12
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Bromomethane (Methyl bromide), ug/l	20U	1.0U	1.0U	1.0U	2.0U
Vinyl chloride, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Chloroethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Methylene chloride (Dichloromethane), ug/l	100U	5.0U	5.0U	5.0U	10U
Acetone, ug/l	500U	25U	25U	25U	24J
Carbon disulfide, ug/l	20U	1.0U	1.0U	1.0U	2.0U
1,1-Dichloroethene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
1,1-Dichloroethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
cis-1,2-Dichloroethene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
trans-1,2-Dichloroethene, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Chloroform, ug/l	20U	0.54J	1.0U	1.0U	2.0U
1,2-Dichloroethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
2-Butanone (MEK), ug/l	200U	10U	10U	10U	20U
1,1,1-Trichloroethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Carbon tetrachloride, ug/l	20U	1.0U	1.0U	1.0U	2.0U
Bromodichloromethane, ug/l	20U	1.0U	1.0U	1.0U	2.0U

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Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-5	MW-104S	11-17-99/14:00	SIO06
17841-6	MW-82S	11-17-99/15:25	SIO06
17841-6-DL	MW-82S	11-17-99/15:25	SIO06
17841-7	MW-81D	11-17-99/15:57	SIO06
17841-8	MW-90S	11-17-99/08:25	SIO06

PARAMETER	17841-5	17841-6	17841-6-DL	17841-7	17841-8
NIST Library Search (VOC-TIC)	*	*		*	*

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Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-5	MW-104S	11-17-99/14:00	SIO06
17841-6	MW-82S	11-17-99/15:25	SIO06
17841-6-DL	MW-82S	11-17-99/15:25	SIO06
17841-7	MW-81D	11-17-99/15:57	SIO06
17841-8	MW-90S	11-17-99/08:25	SIO06

PARAMETER	17841-5	17841-6	17841-6-DL	17841-7	17841-8
Bromodichloromethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
1,2-Dichloropropane, ug/l	1.0U	1.0U	10U	1.1	5.0U
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Trichloroethene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Dibromochloromethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Benzene, ug/l	1.0U	7.8	11D	1.0U	35
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Bromoform, ug/l	1.0U	1.0U	10U	1.0U	5.0U
2-Hexanone, ug/l	10U	10U	100U	10U	50U
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U	100U	10U	50U
Tetrachloroethene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Toluene, ug/l	0.57J	0.48J	10U	0.55J	1.7J
Chlorobenzene, ug/l	0.89J	410E	1000D	1.2	1900E
Ethylbenzene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Styrene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Xylenes, Total, ug/l	2.0U	2.0U	20U	2.0U	12
Surrogate - Toluene-d8	100 %	106 %	106 %	100 %	108 %
Surrogate - 4-Bromofluorobenzene	96 %	96 %	104 %	96 %	102 %
Surrogate - Dibromofluoromethane	98 %	104 %	102 %	98 %	104 %
Dilution Factor	1.0	1.0	10.0	1.0	5.0
Analysis Date	11.24.99	11.24.99	11.28.99	11.24.99	11.24.99
Batch ID	101124	101124	101128	101124	101124

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LOG NO: S9-17841
Received: 19 NOV 99
Reported: 17 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO01/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-5	MW-104S	11-17-99/14:00	SIO06
17841-6	MW-82S	11-17-99/15:25	SIO06
17841-6-DL	MW-82S	11-17-99/15:25	SIO06
17841-7	MW-81D	11-17-99/15:57	SIO06
17841-8	MW-90S	11-17-99/08:25	SIO06

PARAMETER	17841-5	17841-6	17841-6-DL	17841-7	17841-8
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U	10U	1.0U	5.0U
Vinyl chloride, ug/l	1.0U	1.0U	10U	1.1	5.0U
Chloroethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U	50U	5.0U	25U
Acetone, ug/l	25U	25U	250U	25U	120U
Carbon disulfide, ug/l	1.0U	1.0U	10U	1.0U	5.0U
1,1-Dichloroethene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
1,1-Dichloroethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
cis-1,2-Dichloroethene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
trans-1,2-Dichloroethene, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Chloroform, ug/l	1.0U	1.0U	10U	1.0U	5.0U
1,2-Dichloroethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
2-Butanone (MEK), ug/l	10U	10U	100U	10U	50U
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	10U	1.0U	5.0U
Carbon tetrachloride, ug/l	1.0U	1.0U	10U	1.0U	5.0U

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Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-1	MW-100D	11-17-99/10:32	SIO06
17841-2	MW-101S	11-17-99/09:30	SIO06
17841-3	MW-102D	11-17-99/11:51	SIO06
17841-3-DL	MW-102D	11-17-99/11:51	SIO06
17841-4	MW-103S	11-17-99/12:25	SIO06

PARAMETER	17841-1	17841-2	17841-3	17841-3-DL	17841-4
NIST Library Search (VOC-TIC)	*	*	*		*

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-1	MW-100D	11-17-99/10:32	SIO06
17841-2	MW-101S	11-17-99/09:30	SIO06
17841-3	MW-102D	11-17-99/11:51	SIO06
17841-3-DL	MW-102D	11-17-99/11:51	SIO06
17841-4	MW-103S	11-17-99/12:25	SIO06

PARAMETER	17841-1	17841-2	17841-3	17841-3-DL	17841-4
Bromodichloromethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
1,2-Dichloropropane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Trichloroethene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Dibromochloromethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Benzene, ug/l	1.0U	1.0U	24	28D	36
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Bromoform, ug/l	1.0U	1.0U	1.0U	10U	1.0U
2-Hexanone, ug/l	10U	10U	10U	100U	10U
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U	10U	100U	10U
Tetrachloroethene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Toluene, ug/l	0.28J	0.77J	0.83J	10U	0.45J
Chlorobenzene, ug/l	1.0U	32	430E	1100D	51
Ethylbenzene, ug/l	1.0U	1.0U	0.79J	10U	1.0U
Styrene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Xylenes, Total, ug/l	2.0U	2.0U	8.2	20U	2.0U
Surrogate - Toluene-d8	100 %	100 %	100 %	106 %	106 %
Surrogate - 4-Bromofluorobenzene	96 %	98 %	92 %	102 %	104 %
Surrogate - Dibromofluoromethane	96 %	98 %	96 %	102 %	102 %
Dilution Factor	1.0	1.0	1.0	10.0	1.0
Analysis Date	11.24.99	11.24.99	11.24.99	11.28.99	11.25.99
Batch ID	101124	101124	101124	101128	201124

FGHA

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LOG NO: S9-17841
Received: 19 NOV 99
Reported: 17 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SI001/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 165500119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17841-1	MW-100D	11-17-99/10:32	SI006
17841-2	MW-101S	11-17-99/09:30	SI006
17841-3	MW-102D	11-17-99/11:51	SI006
17841-3-DL	MW-102D	11-17-99/11:51	SI006
17841-4	MW-103S	11-17-99/12:25	SI006

PARAMETER	17841-1	17841-2	17841-3	17841-3-DL	17841-4
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U	1.0U	10U	1.0U
Vinyl chloride, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Chloroethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U	5.0U	50U	5.0U
Acetone, ug/l	25U	25U	25U	250U	25U
Carbon disulfide, ug/l	1.0U	1.0U	1.0U	10U	1.0U
1,1-Dichloroethene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
1,1-Dichloroethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Chloroform, ug/l	1.0U	0.48J	1.6	10U	1.0U
1,2-Dichloroethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
2-Butanone (MEK), ug/l	10U	10U	10U	100U	10U
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	1.0U	10U	1.0U
Carbon tetrachloride, ug/l	1.0U	1.0U	1.0U	10U	1.0U

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LOG NO: S9-17888
Received: 20 NOV 99

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO07/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-20	Method Blank		SIO07
17888-21	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-20	17888-21
Manganese (6010)		
Iron (Dissolved) (6010)		
Manganese (Dissolved) (6010)		

Methods: EPA SW-846, Update III.

*F73 = Matrix spike recoveries were outside advisory limits due to matrix interference present in the sample.

X = The recoveries of the matrix spikes are outside advisory limits due to the abundance of the target analyte in the sample.

Elizabeth F. Beauchamp, Project Manager

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-20	Method Blank		SIO07
17888-21	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-20	17888-21
Nitrate-N (353.2), mg/l		
Alkalinity (to pH 4.5) as CaCO3 (310.1)		
Sulfate as SO4 (375.4), mg/l		
Chloride (325.2), mg/l	1.0U	98 %
Dilution Factor	1.0	1.0
Prep Date	12.07.99	12.07.99
Analysis Date	12.07.99	12.07.99
Batch ID	1207A	1207A
Ammonia (as N) (350.1), mg/l		
Total Phosphorus (365.4), mg/l		
Total Organic Carbon (415.1), mg/l		
Sulfide (9030)	1.0U	56 %
Dilution Factor	1.0	1.0
Prep Date	12.06.99	12.06.99
Analysis Date	12.07.99	12.07.99
Batch ID	1206A	1206A
Iron (6010)		

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-20	Method Blank		SIO07
17888-21	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-20	17888-21
Dibromochloromethane, ug/l	1.0U	---
1,1,2-Trichloroethane, ug/l	1.0U	---
Benzene, ug/l	1.0U	108 %
cis-1,3-Dichloropropene, ug/l	1.0U	---
Bromoform, ug/l	1.0U	---
2-Hexanone, ug/l	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---
Tetrachloroethene, ug/l	1.0U	---
Toluene, ug/l	1.0U	108 %
Chlorobenzene, ug/l	1.0U	110 %
Ethylbenzene, ug/l	1.0U	---
Styrene, ug/l	1.0U	---
Xylenes, Total, ug/l	2.0U	---
Surrogate - Toluene-d8	106 %	106 %
Surrogate - 4-Bromofluorobenzene	104 %	100 %
Surrogate - Dibromofluoromethane	104 %	102 %
Dilution Factor	1.0	1.0
Analysis Date	11.29.99	11.29.99
Batch ID	101129	101129

Dissolved Gases in Water

Dissolved Gases

Nitrite-N (353.2), mg/l

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-20	Method Blank		SIO07
17888-21	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-20	17888-21
Volatiles by GC/MS (8260)		
Chloromethane, ug/l	1.0U	---
Bromomethane (Methyl bromide), ug/l	1.0U	---
Vinyl chloride, ug/l	1.0U	---
Chloroethane, ug/l	1.0U	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---
Acetone, ug/l	25U	---
Carbon disulfide, ug/l	1.0U	---
1,1-Dichloroethene, ug/l	1.0U	106 %
1,1-Dichloroethane, ug/l	1.0U	---
cis-1,2-Dichloroethene, ug/l	1.0U	---
trans-1,2-Dichloroethene, ug/l	1.0U	---
Chloroform, ug/l	1.0U	---
1,2-Dichloroethane, ug/l	1.0U	---
2-Butanone (MEK), ug/l	10U	---
1,1,1-Trichloroethane, ug/l	1.0U	---
Carbon tetrachloride, ug/l	1.0U	---
Bromodichloromethane, ug/l	1.0U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---
1,2-Dichloropropane, ug/l	1.0U	---
trans-1,3-Dichloropropene, ug/l	1.0U	---
Trichloroethene, ug/l	1.0U	104 %

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-14	MS Accuracy Advisory Limit (%R)		SIO07
17888-15	Precision (%RPD) MS/MSD		SIO07
17888-16	MS Precision Advisory Limit (%RPD)		SIO07
17888-18	Method Blank		SIO07
17888-19	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-14	17888-15	17888-16	17888-18	17888-19
Sulfide (9030),	50-150 %	6 %	<50 %	1.0U	72 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	12.03.99	12.03.99
Analysis Date	---	---	---	12.07.99	12.07.99
Batch ID	---	---	---	1203A	1203A
Iron (6010)					
Iron, %	75-125 %	3.8 %	<20 %	---	---
Manganese (6010)					
Manganese, %	75-125 %	15 %	<20 %	---	---
Iron (Dissolved) (6010)					
Iron (Dissolved), %	75-125 %	3.8 %	<20 %	---	---
Manganese (Dissolved) (6010)					
Manganese (Dissolved), %	75-125 %	15 %	<20 %	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-14	MS Accuracy Advisory Limit (%R)		SIO07
17888-15	Precision (%RPD) MS/MSD		SIO07
17888-16	MS Precision Advisory Limit (%RPD)		SIO07
17888-18	Method Blank		SIO07
17888-19	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-14	17888-15	17888-16	17888-18	17888-19
Sulfate as SO4 (375.4), %	75-125 %	0 %	<30 %		
Chloride (325.2), mg/l	85-115 %	5.3 %	<30 %	1.0U	91 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	11.30.99	11.30.99
Analysis Date	---	---	---	11.30.99	11.30.99
Batch ID	---	---	---	1130E	1130E
Ammonia (as N) (350.1), mg/l	85-115 %	1.9 %	<30 %	0.017B	107 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	11.29.99	11.29.99
Analysis Date	---	---	---	11.29.99	11.29.99
Batch ID	---	---	---	1129E	1129E
Total Phosphorus (365.4), mg/l	60-140 %	1.0 %	<40 %	0.10U	94 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	12.03.99	12.03.99
Analysis Date	---	---	---	12.06.99	12.06.99
Batch ID	---	---	---	1203A	1203A
Total Organic Carbon (415.1), %	80-120 %	2.0 %	<25 %		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-14	MS Accuracy Advisory Limit (%R)		SIO07
17888-15	Precision (%RPD) MS/MSD		SIO07
17888-16	MS Precision Advisory Limit (%RPD)		SIO07
17888-18	Method Blank		SIO07
17888-19	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-14	17888-15	17888-16	17888-18	17888-19
Dissolved Gases in Water					
Carbon Dioxide (Dissolved), ug/l	---	---	---	---	---
Dissolved Gases					
Methane,	75-125 %	37 %	<25 %	47U	91 %
Ethane,	75-125 %	17 %	<25 %	88U	104 %
Ethene,	75-125 %	16 %	<25 %	82U	112 %
Dilution Factor	---	---	---	1.0	1.0
Analysis Date	---	---	---	12.02.99	12.02.99
Batch ID	---	---	---	2C1202	2C1202
Nitrite-N (353.2), mg/l	80-120 %	0.99 %	<30 %		
Nitrate-N (353.2), mg/l	80-120 %	1.6 %	<30 %	0.050U	111 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	11.21.99	11.21.99
Analysis Date	---	---	---	11.21.99	11.21.99
Batch ID	---	---	---	1207A	1207A
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	---	---	---		

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LOG NO: S9-17888
Received: 20 NOV 99

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO07/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-14	MS Accuracy Advisory Limit (%R)		SIO07
17888-15	Precision (%RPD) MS/MSD		SIO07
17888-16	MS Precision Advisory Limit (%RPD)		SIO07
17888-18	Method Blank		SIO07
17888-19	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-14	17888-15	17888-16	17888-18	17888-19
1,1,2,2-Tetrachloroethane, ug/l	---	---	---	1.0U	---
1,2-Dichloropropane, ug/l	---	---	---	1.0U	---
trans-1,3-Dichloropropene, ug/l	---	---	---	1.0U	---
Trichloroethene, ug/l	56-143 %	6 %	< 35 %	1.0U	102 %
Dibromochloromethane, ug/l	---	---	---	1.0U	---
1,1,2-Trichloroethane, ug/l	---	---	---	1.0U	---
Benzene, ug/l	62-135 %	4 %	< 37 %	1.0U	104 %
cis-1,3-Dichloropropene, ug/l	---	---	---	1.0U	---
Bromoform, ug/l	---	---	---	1.0U	---
2-Hexanone, ug/l	---	---	---	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	---	---	---	10U	---
Tetrachloroethene, ug/l	---	---	---	1.0U	---
Toluene, ug/l	68-131 %	4 %	< 33 %	1.0U	106 %
Chlorobenzene, ug/l	72-127 %	15 %	< 22 %	1.0U	108 %
Ethylbenzene, ug/l	---	---	---	1.0U	---
Styrene, ug/l	---	---	---	1.0U	---
Xylenes, Total, ug/l	---	---	---	2.0U	---
Surrogate - Toluene-d8	77-122 %	---	---	104 %	106 %
Surrogate - 4-Bromofluorobenzene	74-126 %	---	---	102 %	102 %
Surrogate - Dibromofluoromethane	70-130 %	---	---	102 %	104 %
Dilution Factor	---	---	---	1.0	1.0
Analysis Date	---	---	---	11.28.99	11.28.99
Batch ID	---	---	---	101128	101128

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-14	MS Accuracy Advisory Limit (%R)		SIO07
17888-15	Precision (%RPD) MS/MSD		SIO07
17888-16	MS Precision Advisory Limit (%RPD)		SIO07
17888-18	Method Blank		SIO07
17888-19	Lab Control Standard % Recovery		SIO07

PARAMETER	17888-14	17888-15	17888-16	17888-18	17888-19
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	---	---	---	1.0U	---
Bromomethane (Methyl bromide), ug/l	---	---	---	1.0U	---
Vinyl chloride, ug/l	---	---	---	1.0U	---
Chloroethane, ug/l	---	---	---	1.0U	---
Methylene chloride (Dichloromethane), ug/l	---	---	---	5.0U	---
Acetone, ug/l	---	---	---	25U	---
Carbon disulfide, ug/l	---	---	---	1.0U	---
1,1-Dichloroethene, ug/l	46-147 %	8 %	< 30 %	1.0U	112 %
1,1-Dichloroethane, ug/l	---	---	---	1.0U	---
cis-1,2-Dichloroethene, ug/l	---	---	---	1.0U	---
trans-1,2-Dichloroethene, ug/l	---	---	---	1.0U	---
Chloroform, ug/l	---	---	---	1.0U	---
1,2-Dichloroethane, ug/l	---	---	---	1.0U	---
2-Butanone (MEK), ug/l	---	---	---	10U	---
1,1,1-Trichloroethane, ug/l	---	---	---	1.0U	---
Carbon tetrachloride, ug/l	---	---	---	1.0U	---
Bromodichloromethane, ug/l	---	---	---	1.0U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Manganese (6010)					
Manganese, mg/l	0.010U	116 %	75-125 %	96 %	83 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1130J	1130J	---	1130J	1130J
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.050U	123 %	75-125 %	102 %	106 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1130J	1130J	---	1130J	1130J
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.010U	116 %	75-125 %	96 %	83 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1130J	1130J	---	1130J	1130J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Total Organic Carbon (415.1), mg/l	1.0U	93 %	80-120 %	100 %	98 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.04.99	12.04.99	---	12.04.99	12.04.99
Analysis Date	12.04.99	12.04.99	---	12.04.99	12.04.99
Batch ID	1204B	1204B	---	1204B	1204B
Sulfide (9030), mg/l	1.3	68 %	50-150 %	84 %	79 %
Dilution Factor	1	1	---	1	1
Prep Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Analysis Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Batch ID	1124A	1124A	---	1124A	1124A
Iron (6010)					
Iron, mg/l	0.050U	123 %	75-125 %	102 %	106 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1130J	1130J	---	1130J	1130J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Chloride (325.2), mg/l	1.0U	91 %	85-115 %	97 %	92 %
Dilution Factor	1.0	1.0	---	2.0	2.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Batch ID	1130C	1130C	---	1130E	1130E
Ammonia (as N) (350.1), mg/l	0.016B	111 %	85-115 %	105 %	107 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.29.99	11.29.99	---	11.29.99	11.29.99
Analysis Date	11.29.99	11.29.99	---	11.29.99	11.29.99
Batch ID	1129C	1129C	---	1129C	1129C
Total Phosphorus (365.4), mg/l	0.10U	97 %	60-140 %	95 %	96 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.26.99	11.26.99	---	11.26.99	11.26.99
Analysis Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Batch ID	1126B	1126B	---	1126B	1126B

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Nitrate-N (353.2), mg/l	0.015B	100 %	80-120 %	61 %*F73	62 %*F73
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.21.99	11.21.99	---	11.21.99	11.21.99
Analysis Date	11.21.99	11.21.99	---	11.21.99	11.21.99
Batch ID	1202A	1202A	---	1202A	1202A
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	1.0U	102 %	80-120 %	---	---
Dilution Factor	1.0	1.0	---	---	---
Prep Date	11.23.99	11.23.99	---	---	---
Analysis Date	11.23.99	11.23.99	---	---	---
Batch ID	1123A	1123A	---	---	---
Sulfate as SO4 (375.4), mg/l	2.2B	78 %	75-125 %	119 %	119 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1201A	1201A	---	1201A	1201A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Dissolved Gases in Water					
Carbon Dioxide (Dissolved), ug/l	2600U	76 %	75-125 %	---	---
Total Oxygen, ug/l	100U	---	---	---	---
N, ug/l	5000U	---	---	---	---
Dilution Factor	1.0	1.0	---	---	---
Analysis Date	12.02.99	12.03.99	---	---	---
Batch ID	1C1202	1C1202	---	---	---
Dissolved Gases					
Methane, ug/l	0.19U	103 %	75-125 %	*F61	*F61
Ethane, ug/l	0.35U	94 %	75-125 %	44 %	52 %
Ethene, ug/l	0.33U	106 %	75-125 %	39 %	46 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Analysis Date	12.01.99	12.01.99	---	12.02.99	12.02.99
Batch ID	1C1201	1C1201	---	1C1201	1C1201
Nitrite-N (353.2), mg/l	0.050U	104 %	80-120 %	102 %	101 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.21.99	11:21.99	---	11.21.99	11.21.99
Analysis Date	11.21.99	11.21.99	---	11.21.99	11.21.99
Batch ID	1121A	1121A	---	1121A	1121A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Bromodichloromethane, ug/l	1.0U	---	---	---	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	---	---	---
1,2-Dichloropropane, ug/l	1.0U	---	---	---	---
trans-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Trichloroethene, ug/l	1.0U	100 %	56-143 %	98 %	104 %
Dibromochloromethane, ug/l	1.0U	---	---	---	---
1,1,2-Trichloroethane, ug/l	1.0U	---	---	---	---
Benzene, ug/l	1.0U	104 %	62-135 %	102 %	106 %
cis-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Bromoform, ug/l	1.0U	---	---	---	---
2-Hexanone, ug/l	10U	---	---	---	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---	---	---	---
Tetrachloroethene, ug/l	1.0U	---	---	---	---
Toluene, ug/l	1.0U	104 %	68-131 %	106 %	110 %
Chlorobenzene, ug/l	1.0U	106 %	72-127 %	140 %X	120 %
Ethylbenzene, ug/l	1.0U	---	---	---	---
Styrene, ug/l	1.0U	---	---	---	---
Xylenes, Total, ug/l	2.0U	---	---	---	---
Surrogate - Toluene-d8	106 %	104 %	77-122 %	---	---
Surrogate - 4-Bromofluorobenzene	104 %	104 %	74-126 %	---	---
Surrogate - Dibromofluoromethane	104 %	104 %	70-130 %	---	---
Dilution Factor	1.0	1.0	---	10.0	10.0
Analysis Date	11.26.99	11.26.99	---	11.29.99	11.29.99
Batch ID	101126	101126	---	101129	101129

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-9	Method Blank		SIO07
17888-10	Lab Control Standard % Recovery		SIO07
17888-11	LCS Accuracy Control Limit (%R)		SIO07
17888-12	Matrix Spike % Recovery		SIO07
17888-13	Matrix Spike Duplicate % Recovery		SIO07

PARAMETER	17888-9	17888-10	17888-11	17888-12	17888-13
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	---	---	---
Bromomethane (Methyl bromide), ug/l	1.0U	---	---	---	---
Vinyl chloride, ug/l	1.0U	---	---	---	---
Chloroethane, ug/l	1.0U	---	---	---	---
Methylene chloride (Dichloromethane), ug/l	0.79J	---	---	---	---
Acetone, ug/l	25U	---	---	---	---
Carbon disulfide, ug/l	1.0U	---	---	---	---
1,1-Dichloroethene, ug/l	1.0U	108 %	46-147 %	98 %	106 %
1,1-Dichloroethane, ug/l	1.0U	---	---	---	---
cis-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
trans-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
Chloroform, ug/l	1.0U	---	---	---	---
1,2-Dichloroethane, ug/l	1.0U	---	---	---	---
2-Butanone (MEK), ug/l	10U	---	---	---	---
1,1,1-Trichloroethane, ug/l	1.0U	---	---	---	---
Carbon tetrachloride, ug/l	1.0U	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-17	GW-DUP-4	11-19-99	SIO07
17888-17-R	GW-DUP-4	11-19-99	SIO07
17888-17-D	GW-DUP-4	11-19-99	SIO07

PARAMETER	17888-17	17888-17-RE	17888-17-DL
Manganese (Dissolved) (6010)			
Manganese (Dissolved), mg/l	0.00056B	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.01.99	---	---
Batch ID	1130J	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-17	GW-DUP-4	11-19-99	SIO07
17888-17-R	GW-DUP-4	11-19-99	SIO07
17888-17-D	GW-DUP-4	11-19-99	SIO07

PARAMETER	17888-17	17888-17-RE	17888-17-DL
Iron (6010)			
Iron, mg/l	5.8	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.01.99	---	---
Batch ID	1130J	---	---
Manganese (6010)			
Manganese, mg/l	0.12	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.01.99	---	---
Batch ID	1130J	---	---
Iron (Dissolved) (6010)			
Iron (Dissolved), mg/l	0.022B	---	---
Dilution Factor	1.0	---	---
Prep Date	11.30.99	---	---
Analysis Date	12.01.99	---	---
Batch ID	1130J	---	---

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LOG NO: S9-17888
Received: 20 NOV 99

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO07/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-17	GW-DUP-4	11-19-99	SIO07
17888-17-R	GW-DUP-4	11-19-99	SIO07
17888-17-D	GW-DUP-4	11-19-99	SIO07

PARAMETER	17888-17	17888-17-RE	17888-17-DL
Ammonia (as N) (350.1), mg/l	8.6		
Dilution Factor	10	---	---
Prep Date	11.29.99	---	---
Analysis Date	11.29.99	---	---
Batch ID	1129E	---	---
Total Phosphorus (365.4), mg/l	0.25		
Dilution Factor	1	---	---
Prep Date	11.26.99	---	---
Analysis Date	11.30.99	---	---
Batch ID	1126B	---	---
Total Organic Carbon (9060), mg/l	13		
Dilution Factor	1.0	---	---
Prep Date	12.04.99	---	---
Analysis Date	12.04.99	---	---
Batch ID	1204B	---	---
Sulfide (9030), mg/l	1.5		1.0U
Dilution Factor	1.0	---	1.0
Prep Date	11.24.99	---	12.03.99
Analysis Date	11.24.99	---	12.07.99
Batch ID	1124A	---	1203A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-17	GW-DUP-4	11-19-99	SIO07
17888-17-R	GW-DUP-4	11-19-99	SIO07
17888-17-D	GW-DUP-4	11-19-99	SIO07

PARAMETER	17888-17	17888-17-RE	17888-17-DL
Chloride (325.2), mg/l	190		
Dilution Factor	2	---	---
Prep Date	12.07.99	---	---
Analysis Date	12.07.99	---	---
Batch ID	1207A	---	---
Dissolved Gases in Water			
Carbon Dioxide (Dissolved), ug/l	2600U	---	---
Total Oxygen, ug/l	1400E	---	1500
N, ug/l	6600	---	7200
Dilution Factor	1.0	---	1.0
Analysis Date	12.03.99	---	12.03.99
Batch ID	1C1202	---	1C1202
Dissolved Gases			
Ethane, ug/l	0.37	88U	---
Ethene, ug/l	1.3	82U	---
Methane, ug/l	90E	47U	---
Dilution Factor	1.0	1.0	---
Analysis Date	12.02.99	12.03.99	---
Batch ID	1C1201	1C1202	---

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Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-17	GW-DUP-4	11-19-99	SIO07
17888-17-R	GW-DUP-4	11-19-99	SIO07
17888-17-D	GW-DUP-4	11-19-99	SIO07

PARAMETER	17888-17	17888-17-RE	17888-17-DL
Nitrite-N (353.2), mg/l	0.0040B		
Dilution Factor	1.0	---	---
Prep Date	11.21.99	---	---
Analysis Date	11.21.99	---	---
Batch ID	1121A	---	---
Nitrate-N (353.2), mg/l	0.018B		
Dilution Factor	1.0	---	---
Prep Date	11.21.99	---	---
Analysis Date	11.21.99	---	---
Batch ID	1202A	---	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	170		
Dilution Factor	1.0	---	---
Prep Date	11.23.99	---	---
Analysis Date	11.23.99	---	---
Batch ID	1123A	---	---
Sulfate as SO4 (375.4), mg/l	42		
Dilution Factor	1.0	---	---
Prep Date	12.01.99	---	---
Analysis Date	12.01.99	---	---
Batch ID	1201A	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-8	MW-93A	11-18-99/16:35	SIO07
17888-8-RE	MW-93A	11-18-99/16:35	SIO07

PARAMETER	17888-8	17888-8-RE
Dissolved Gases in Water		
Carbon Dioxide (Dissolved), ug/l	3500	---
Total Oxygen, ug/l	480	---
N, ug/l	2200J	---
Dilution Factor	1.0	---
Analysis Date	12.02.99	---
Batch ID	1C1202	---
Dissolved Gases		
Methane, ug/l	270E	1100
Ethane, ug/l	80E	66J
Ethene, ug/l	230E	280
Dilution Factor	1.0	1.0
Analysis Date	12.02.99	12.02.99
Batch ID	1C1201	1C1202

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Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-7	Trip Blank	11-18-99/12:00	SIO07
17888-7-RE	Trip Blank	11-18-99/12:00	SIO07

PARAMETER	17888-7	17888-7-RE
Dissolved Gases in Water		
Carbon Dioxide (Dissolved), ug/l	2600U	5200U
Total Oxygen, ug/l	1000E	810
N, ug/l	4600J	10000U
Dilution Factor	1.0	2.0
Analysis Date	12.02.99	12.02.99
Batch ID	1C1202	1C1202
Dissolved Gases		
Methane, ug/l	0.19U	---
Ethane, ug/l	0.35U	---
Ethene, ug/l	0.33U	---
Dilution Factor	1.0	---
Analysis Date	12.02.99	---
Batch ID	1C1201	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-7	Trip Blank	11-18-99/12:00	SIO07
17888-7-RE	Trip Blank	11-18-99/12:00	SIO07

PARAMETER	17888-7	17888-7-RE
Dibromochloromethane, ug/l	1.0U	---
1,1,2-Trichloroethane, ug/l	1.0U	---
Benzene, ug/l	1.0U	---
cis-1,3-Dichloropropene, ug/l	1.0U	---
Bromoform, ug/l	1.0U	---
2-Hexanone, ug/l	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---
Tetrachloroethene, ug/l	1.0U	---
Toluene, ug/l	1.0U	---
Chlorobenzene, ug/l	1.0U	---
Ethylbenzene, ug/l	1.0U	---
Styrene, ug/l	1.0U	---
Xylenes, Total, ug/l	2.0U	---
Surrogate - Toluene-d8	106 %	---
Surrogate - 4-Bromofluorobenzene	104 %	---
Surrogate - Dibromofluoromethane	104 %	---
Dilution Factor	1.0	---
Analysis Date	11.26.99	---
Batch ID	101126	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-7	Trip Blank	11-18-99/12:00	SIO07
17888-7-RE	Trip Blank	11-18-99/12:00	SIO07

PARAMETER	17888-7	17888-7-RE
Volatiles by GC/MS (8260)		
Chloromethane, ug/l	1.0U	---
Bromomethane (Methyl bromide), ug/l	1.0U	---
Vinyl chloride, ug/l	1.0U	---
Chloroethane, ug/l	1.0U	---
Methylene chloride (Dichloromethane), ug/l	0.88JB	---
Acetone, ug/l	25U	---
Carbon disulfide, ug/l	1.0U	---
1,1-Dichloroethene, ug/l	1.0U	---
1,1-Dichloroethane, ug/l	1.0U	---
cis-1,2-Dichloroethene, ug/l	1.0U	---
trans-1,2-Dichloroethene, ug/l	1.0U	---
Chloroform, ug/l	1.0U	---
1,2-Dichloroethane, ug/l	1.0U	---
2-Butanone (MEK), ug/l	10U	---
1,1,1-Trichloroethane, ug/l	1.0U	---
Carbon tetrachloride, ug/l	1.0U	---
Bromodichloromethane, ug/l	1.0U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---
1,2-Dichloropropane, ug/l	1.0U	---
trans-1,3-Dichloropropene, ug/l	1.0U	---
Trichloroethene, ug/l	1.0U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S	11-19-99/15:45	SIO07
17888-6-RE	MW-96S	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Manganese (Dissolved) (6010)		
Manganese (Dissolved), mg/l	0.010U	---
Dilution Factor	1.0	---
Prep Date	11.30.99	---
Analysis Date	12.01.99	---
Batch ID	1130J	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S	11-19-99/15:45	SIO07
17888-6-RE	MW-96S	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Iron (6010)		
Iron, mg/l	6.6	---
Dilution Factor	1.0	---
Prep Date	11.30.99	---
Analysis Date	12.01.99	---
Batch ID	1130J	---
Manganese (6010)		
Manganese, mg/l	0.14	---
Dilution Factor	1.0	---
Prep Date	11.30.99	---
Analysis Date	12.01.99	---
Batch ID	1130J	---
Iron (Dissolved) (6010)		
Iron (Dissolved), mg/l	0.034B	---
Dilution Factor	1.0	---
Prep Date	11.30.99	---
Analysis Date	12.01.99	---
Batch ID	1130J	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S F	11-19-99/15:45	SIO07
17888-6-RE	MW-96S F	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Ammonia (as N) (350.1), mg/l	3.9	
Dilution Factor	5	---
Prep Date	11.29.99	---
Analysis Date	11.29.99	---
Batch ID	1129E	---
Total Phosphorus (365.4), mg/l	0.24	
Dilution Factor	1	---
Prep Date	11.26.99	---
Analysis Date	11.30.99	---
Batch ID	1126B	---
Total Organic Carbon (415.1), mg/l	14	
Dilution Factor	1.0	---
Prep Date	12.04.99	---
Analysis Date	12.04.99	---
Batch ID	1204B	---
Sulfide (9030), mg/l	1.6	1.0U
Dilution Factor	1	1
Prep Date	11.24.99	12.03.99
Analysis Date	11.24.99	12.07.99
Batch ID	1124A	1203A

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S F	11-19-99/15:45	SIO07
17888-6-RE	MW-96S F	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Nitrate-N (353.2), mg/l	0.050U	
Dilution Factor	1	---
Prep Date	11.21.99	---
Analysis Date	11.21.99	---
Batch ID	1207A	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	160	
Dilution Factor	1.0	---
Prep Date	11.23.99	---
Analysis Date	11.23.99	---
Batch ID	1123A	---
Sulfate as SO4 (375.4), mg/l	39	
Dilution Factor	1.0	---
Prep Date	12.01.99	---
Analysis Date	12.01.99	---
Batch ID	1201A	---
Chloride (325.2), mg/l	180	
Dilution Factor	2	---
Prep Date	11.30.99	---
Analysis Date	11.30.99	---
Batch ID	1130E	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S F	11-19-99/15:45	SIO07
17888-6-RE	MW-96S F	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Dissolved Gases in Water		
Carbon Dioxide (Dissolved), ug/l	2600U	---
Total Oxygen, ug/l	760	---
N, ug/l	3600J	---
Dilution Factor	1.0	---
Analysis Date	12.02.99	---
Batch ID	1C1202	---
Dissolved Gases		
Methane, ug/l	86E	130
Ethane, ug/l	0.73	88U
Ethene, ug/l	0.85	82U
Dilution Factor	1.0	1.0
Analysis Date	12.02.99	12.03.99
Batch ID	1C1201	1C1202
NIST Library Search (VOC-TIC)	*	
Nitrite-N (353.2), mg/l	0.050U	
Dilution Factor	1.0	---
Prep Date	11.21.99	---
Analysis Date	11.21.99	---
Batch ID	1121A	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S	11-19-99/15:45	SIO07
17888-6-RE	MW-96S	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Dibromochloromethane, ug/l	1.0U	---
1,1,2-Trichloroethane, ug/l	1.0U	---
Benzene, ug/l	1.0U	---
cis-1,3-Dichloropropene, ug/l	1.0U	---
Bromoform, ug/l	1.0U	---
2-Hexanone, ug/l	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---
Tetrachloroethene, ug/l	9.5	---
Toluene, ug/l	1.0U	---
Chlorobenzene, ug/l	1.0U	---
Ethylbenzene, ug/l	1.0U	---
Styrene, ug/l	1.0U	---
Xylenes, Total, ug/l	2.0U	---
Surrogate - Toluene-d8	106 %	---
Surrogate - 4-Bromofluorobenzene	102 %	---
Surrogate - Dibromofluoromethane	100 %	---
Dilution Factor	1.0	---
Analysis Date	11.28.99	---
Batch ID	101128	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-6	MW-96S F	11-19-99/15:45	SIO07
17888-6-RE	MW-96S F	11-19-99/15:45	SIO07

PARAMETER	17888-6	17888-6-RE
Volatiles by GC/MS (8260)		
Chloromethane, ug/l	1.0U	---
Bromomethane (Methyl bromide), ug/l	1.0U	---
Vinyl chloride, ug/l	18	---
Chloroethane, ug/l	1.0U	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---
Acetone, ug/l	16J	---
Carbon disulfide, ug/l	0.74J	---
1,1-Dichloroethene, ug/l	1.0U	---
1,1-Dichloroethane, ug/l	1.0U	---
cis-1,2-Dichloroethene, ug/l	8.2	---
trans-1,2-Dichloroethene, ug/l	1.0U	---
Chloroform, ug/l	1.0U	---
1,2-Dichloroethane, ug/l	1.0U	---
2-Butanone (MEK), ug/l	10U	---
1,1,1-Trichloroethane, ug/l	1.0U	---
Carbon tetrachloride, ug/l	1.0U	---
Bromodichloromethane, ug/l	1.0U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---
1,2-Dichloropropane, ug/l	1.0U	---
trans-1,3-Dichloropropene, ug/l	1.0U	---
Trichloroethene, ug/l	2.0	---

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Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Koll (BBL) Project: SIO07/10253009/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.0011B	---	0.67	---	---
Dilution Factor	1.0	---	1.0	---	---
Prep Date	11.30.99	---	11.30.99	---	---
Analysis Date	12.01.99	---	12.01.99	---	---
Batch ID	1130J	---	1130J	---	---

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LOG NO: S9-17888
Received: 20 NOV 99

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730 Worcester Street
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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Iron (6010)					
Iron, mg/l	0.45	---	9.6	---	---
Dilution Factor	1.0	---	1.0	---	---
Prep Date	11.30.99	---	11.30.99	---	---
Analysis Date	12.01.99	---	12.01.99	---	---
Batch ID	1130J	---	1130J	---	---
Manganese (6010)					
Manganese, mg/l	0.028	---	0.82	---	---
Dilution Factor	1.0	---	1.0	---	---
Prep Date	11.30.99	---	11.30.99	---	---
Analysis Date	12.01.99	---	12.01.99	---	---
Batch ID	1130J	---	1130J	---	---
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.050U	---	0.39	---	---
Dilution Factor	1.0	---	1.0	---	---
Prep Date	11.30.99	---	11.30.99	---	---
Analysis Date	12.01.99	---	12.01.99	---	---
Batch ID	1130J	---	1130J	---	---

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Total Phosphorus (365.4), mg/l	0.10U		0.13		
Dilution Factor	1	---	1	---	---
Prep Date	12.03.99	---	11.26.99	---	---
Analysis Date	12.06.99	---	11.30.99	---	---
Batch ID	1203A	---	1126B	---	---
Total Organic Carbon (415.1), mg/l	1.1		3.4		
Dilution Factor	1.0	---	1.0	---	---
Prep Date	12.04.99	---	12.04.99	---	---
Analysis Date	12.04.99	---	12.04.99	---	---
Batch ID	1204B	---	1204B	---	---
Sulfide (9030), mg/l	1.0U	1.0U	1.2		1.0U
Dilution Factor	1	1	1	---	1
Prep Date	11.24.99	12.06.99	11.24.99	---	12.03.99
Analysis Date	11.24.99	12.07.99	11.24.99	---	12.07.99
Batch ID	1124A	1206A	1124A	---	1203A

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Sulfate as SO4 (375.4), mg/l	32		3.4B		
Dilution Factor	1.0	---	1.0	---	---
Prep Date	12.01.99	---	12.01.99	---	---
Analysis Date	12.01.99	---	12.01.99	---	---
Batch ID	1201A	---	1201A	---	---
Chloride (325.2), mg/l	26		85		
Dilution Factor	1	---	2	---	---
Prep Date	11.30.99	---	11.30.99	---	---
Analysis Date	11.30.99	---	11.30.99	---	---
Batch ID	1130C	---	1130E	---	---
Ammonia (as N) (350.1), mg/l	0.030U		0.30		
Dilution Factor	1	---	1	---	---
Prep Date	11.29.99	---	11.29.99	---	---
Analysis Date	11.29.99	---	11.29.99	---	---
Batch ID	1129C	---	1129C	---	---

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Nitrite-N (353.2), mg/l	0.018B		0.030B		
Dilution Factor	1.0	---	1.0	---	---
Prep Date	11.21.99	---	11.21.99	---	---
Analysis Date	11.21.99	---	11.21.99	---	---
Batch ID	1121A	---	1121A	---	---
Nitrate-N (353.2), mg/l	5.7		0.050U		
Dilution Factor	5.0	---	1.0	---	---
Prep Date	11.21.99	---	11.21.99	---	---
Analysis Date	11.21.99	---	11.21.99	---	---
Batch ID	1202A	---	1202A	---	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	98		79		
Dilution Factor	1.0	---	1.0	---	---
Prep Date	11.23.99	---	11.23.99	---	---
Analysis Date	11.23.99	---	11.23.99	---	---
Batch ID	1123A	---	1123A	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Dissolved Gases in Water					
Carbon Dioxide (Dissolved), ug/l	2600U	---	23000	---	---
Total Oxygen, ug/l	830	---	640	---	---
N, ug/l	4000J	---	3400J	---	---
Dilution Factor	1.0	---	1.0	---	---
Analysis Date	12.02.99	---	12.03.99	---	---
Batch ID	1C1202	---	1C1202	---	---
Dissolved Gases					
Methane, ug/l	0.076J	---	280E	---	1200
Ethane, ug/l	0.35U	---	99E	---	88U
Ethene, ug/l	0.33U	---	0.45	---	82U
Dilution Factor	1.0	---	1.0	---	1.0
Analysis Date	12.02.99	---	12.02.99	---	12.03.99
Batch ID	1C1201	---	1C1201	---	1C1202
NIST Library Search (VOC-TIC)	*		*		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Bromodichloromethane, ug/l	1.0U	---	100U	200U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	100U	200U	---
1,2-Dichloropropane, ug/l	1.0U	---	100U	200U	---
trans-1,3-Dichloropropene, ug/l	1.0U	---	100U	200U	---
Trichloroethene, ug/l	1.0U	---	100U	200U	---
Dibromochloromethane, ug/l	1.0U	---	100U	200U	---
1,1,2-Trichloroethane, ug/l	1.0U	---	100U	200U	---
Benzene, ug/l	1.0U	---	100U	200U	---
cis-1,3-Dichloropropene, ug/l	1.0U	---	100U	200U	---
Bromoform, ug/l	1.0U	---	100U	200U	---
2-Hexanone, ug/l	10U	---	1000U	2000U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---	1000U	2000U	---
Tetrachloroethene, ug/l	1.0U	---	100U	200U	---
Toluene, ug/l	0.33J	---	100U	200U	---
Chlorobenzene, ug/l	1.0	---	100U	200U	---
Ethylbenzene, ug/l	1.0U	---	25000E	26000D	---
Styrene, ug/l	1.0U	---	100U	200U	---
Xylenes, Total, ug/l	2.0U	---	200U	400U	---
Surrogate - Toluene-d8	104 %	---	106 %	104 %	---
Surrogate - 4-Bromofluorobenzene	104 %	---	104 %	104 %	---
Surrogate - Dibromofluoromethane	104 %	---	102 %	102 %	---
Dilution Factor	1.0	---	100.0	200.0	---
Analysis Date	11.26.99	---	11.28.99	11.29.99	---
Batch ID	101126	---	101128	101129	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-4	MW-99S	11-19-99/12:30	SIO07
17888-4-RE	MW-99S	11-19-99/12:30	SIO07
17888-5	MW-87S	11-19-99/14:10	SIO07
17888-5-DL	MW-87S	11-19-99/14:10	SIO07
17888-5-RE	MW-87S	11-19-99/14:10	SIO07

PARAMETER	17888-4	17888-4-RE	17888-5	17888-5-DL	17888-5-RE
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	100U	200U	---
Bromomethane (Methyl bromide), ug/l	1.0U	---	100U	200U	---
Vinyl chloride, ug/l	1.0U	---	100U	200U	---
Chloroethane, ug/l	1.0U	---	100U	200U	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---	500U	1000U	---
Acetone, ug/l	25U	---	2500U	5000U	---
Carbon disulfide, ug/l	1.0U	---	100U	200U	---
1,1-Dichloroethene, ug/l	1.0U	---	100U	200U	---
1,1-Dichloroethane, ug/l	1.0U	---	100U	200U	---
cis-1,2-Dichloroethene, ug/l	1.0U	---	100U	200U	---
trans-1,2-Dichloroethene, ug/l	1.0U	---	100U	200U	---
Chloroform, ug/l	1.0U	---	100U	200U	---
1,2-Dichloroethane, ug/l	3.3	---	100U	200U	---
2-Butanone (MEK), ug/l	10U	---	1000U	2000U	---
1,1,1-Trichloroethane, ug/l	1.0U	---	100U	200U	---
Carbon tetrachloride, ug/l	1.0U	---	100U	200U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-1	MW-98D	11-19-99/12:00	SIO07
17888-2	RINSE BLANK	11-19-99/16:00	SIO07

PARAMETER	17888-1	17888-2
Dibromochloromethane, ug/l	1.0U	1.0U
1,1,2-Trichloroethane, ug/l	1.0U	1.0U
Benzene, ug/l	1.0U	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U
Bromoform, ug/l	1.0U	1.0U
2-Hexanone, ug/l	10U	10U
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U
Tetrachloroethene, ug/l	1.0U	1.0U
Toluene, ug/l	1.0U	1.0U
Chlorobenzene, ug/l	1.0U	1.0U
Ethylbenzene, ug/l	1.0U	1.0U
Styrene, ug/l	1.0U	1.0U
Xylenes, Total, ug/l	2.0U	2.0U
Surrogate - Toluene-d8	106 %	108 %
Surrogate - 4-Bromofluorobenzene	104 %	104 %
Surrogate - Dibromofluoromethane	104 %	102 %
Dilution Factor	1.0	1.0
Analysis Date	11.26.99	11.28.99
Batch ID	101126	101128
NIST Library Search (VOC-TIC)	*	*

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
17888-1	MW-98D	11-19-99/12:00	SIO07
17888-2	RINSE BLANK	11-19-99/16:00	SIO07

PARAMETER	17888-1	17888-2
Volatiles by GC/MS (8260)		
Chloromethane, ug/l	1.0U	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U
Vinyl chloride, ug/l	4.2	1.0U
Chloroethane, ug/l	1.0U	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U
Acetone, ug/l	25U	25U
Carbon disulfide, ug/l	1.0U	1.0U
1,1-Dichloroethene, ug/l	1.0U	1.0U
1,1-Dichloroethane, ug/l	1.0U	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U	1.0U
Chloroform, ug/l	1.0U	1.0U
1,2-Dichloroethane, ug/l	1.0U	1.0U
2-Butanone (MEK), ug/l	10U	10U
1,1,1-Trichloroethane, ug/l	1.0U	1.0U
Carbon tetrachloride, ug/l	1.0U	1.0U
Bromodichloromethane, ug/l	1.0U	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U
1,2-Dichloropropane, ug/l	1.0U	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U
Trichloroethene, ug/l	1.0U	1.0U

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Received: 24 NOV 99
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Mr. Roy Hart
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730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Kull (BBL) Project: SIO08/10258016/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	1.0U	1.0U	---
Bromomethane (Methyl bromide), ug/l	1.0U	---	1.0U	1.0U	---
Vinyl chloride, ug/l	1.0	---	1.0U	1400E	---
Chloroethane, ug/l	1.0U	---	1.0U	1.0U	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---	5.0U	5.0U	---
Acetone, ug/l	25U	---	25U	25U	---
Carbon disulfide, ug/l	1.0U	---	1.0U	1.0U	---
1,1-Dichloroethene, ug/l	1.0U	---	1.0U	1.0U	---
1,1-Dichloroethane, ug/l	1.0U	---	1.0U	1.0U	---
cis-1,2-Dichloroethene, ug/l	1.0U	---	1.0U	38	---
trans-1,2-Dichloroethene, ug/l	1.0U	---	1.0U	1.0U	---
Chloroform, ug/l	1.0U	---	1.0U	1.0U	---
1,2-Dichloroethane, ug/l	1.0U	---	1.0U	6.5	---
2-Butanone (MEK), ug/l	10U	---	10U	10U	---
1,1,1-Trichloroethane, ug/l	1.0U	---	1.0U	1.0U	---
Carbon tetrachloride, ug/l	1.0U	---	1.0U	1.0U	---

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Bromodichloromethane, ug/l	1.0U	---	1.0U	1.0U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	1.0U	1.0U	---
1,2-Dichloropropane, ug/l	1.0U	---	1.0U	1.0U	---
trans-1,3-Dichloropropene, ug/l	1.0U	---	1.0U	1.0U	---
Trichloroethene, ug/l	1.0U	---	1.0U	1.2	---
Dibromochloromethane, ug/l	1.0U	---	1.0U	1.0U	---
1,1,2-Trichloroethane, ug/l	1.0U	---	1.0U	1.0U	---
Benzene, ug/l	0.30J	---	1.0U	1.0U	---
cis-1,3-Dichloropropene, ug/l	1.0U	---	1.0U	1.0U	---
Bromoform, ug/l	1.0U	---	1.0U	1.0U	---
2-Hexanone, ug/l	10U	---	10U	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---	10U	10U	---
Tetrachloroethene, ug/l	1.0U	---	1.0U	1.0U	---
Toluene, ug/l	0.29J	---	1.0U	2.8	---
Chlorobenzene, ug/l	0.99J	---	1.0U	1.0U	---
Ethylbenzene, ug/l	1.2	---	1.0U	170	---
Styrene, ug/l	1.0U	---	1.0U	1.0U	---
Xylenes, Total, ug/l	5.6	---	2.0U	2.0U	---
Surrogate - Toluene-d8	90 %	---	92 %	86 %	---
Surrogate - 4-Bromofluorobenzene	90 %	---	90 %	88 %	---
Surrogate - Dibromofluoromethane	82 %	---	80 %	82 %	---
Dilution Factor	1.0	---	1.0	1.0	---
Analysis Date	12.02.99	---	12.02.99	12.02.99	---
Batch ID	2A1201	---	2A1201	2A1201	---

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LOG NO: S9-17951
Received: 24 NOV 99
Reported: 19 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Kull (BBL) Project: SIO08/10258016/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
NIST Library Search (VOC-TIC)	*		*	*	
Dissolved Gases in Water					
N, ug/l	2000J	---	3800J	1900J	---
Total Oxygen, ug/l	430	---	870	470	---
Carbon Dioxide (Dissolved), ug/l	13000	---	2600U	29000	---
Dilution Factor	1.0	---	1.0	1.0	---
Analysis Date	12.06.99	---	12.06.99	12.06.99	---
Batch ID	1C1206	---	1C1206	1C1206	---
Dissolved Gases					
Methane, ug/l	220E	250	0.64	240E	320
Ethane, ug/l	0.35U	88U	0.35U	11	88U
Ethene, ug/l	0.33U	82U	0.33U	78E	210
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	12.01.99	12.06.99	12.01.99	12.01.99	12.06.99
Batch ID	1C1201	1C1206	1C1201	1C1201	1C1206

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Nitrite-N (353.2), mg/l	0.039B		0.050U	0.050U	
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	11.24.99	---	11.24.99	11.24.99	---
Analysis Date	11.24.99	---	11.24.99	11.24.99	---
Batch ID	1124C	---	1124C	1124C	---
Nitrate-N (353.2), mg/l	0.050U		0.45	0.050U	
Dilution Factor	1	---	1	1	---
Prep Date	11.24.99	---	11.24.99	11.24.99	---
Analysis Date	11.24.99	---	11.24.99	11.24.99	---
Batch ID	1206C	---	1206C	1206C	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	160		74	110	
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	12.02.99	---	12.02.99	12.02.99	---
Analysis Date	12.02.99	---	12.02.99	12.02.99	---
Batch ID	1202A	---	1202A	1202A	---

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REPORT OF RESULTS

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17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Sulfate as SO4 (375.4), mg/l	99		23	2.1B	
Dilution Factor	5.0	---	1.0	1.0	---
Prep Date	12.01.99	---	12.01.99	12.01.99	---
Analysis Date	12.01.99	---	12.01.99	12.01.99	---
Batch ID	1201A	---	1201A	1201A	---
Chloride (325.2), mg/l	29		150	91	
Dilution Factor	1	---	5	1	---
Prep Date	11.30.99	---	11.30.99	11.30.99	---
Analysis Date	11.30.99	---	11.30.99	11.30.99	---
Batch ID	1130D	---	1130E	1130D	---
Ammonia (as N) (350.1), mg/l	12		0.031	0.82	
Dilution Factor	10	---	1	1	---
Prep Date	12.02.99	---	12.02.99	12.02.99	---
Analysis Date	12.02.99	---	12.02.99	12.02.99	---
Batch ID	1202B	---	1202B	1202B	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Total Phosphorus (365.4), mg/l	0.38		0.080B	0.10	
Dilution Factor	1	---	1	1	---
Prep Date	11.30.99	---	11.30.99	11.30.99	---
Analysis Date	12.03.99	---	12.03.99	12.03.99	---
Batch ID	1130B	---	1130B	1130B	---
Total Organic Carbon (9060), mg/l	14		0.70B	4.4	
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	12.04.99	---	12.04.99	12.04.99	---
Analysis Date	12.04.99	---	12.04.99	12.04.99	---
Batch ID	1204B	---	1204B	1204B	---
Sulfide (376.2), mg/l	1.0U		1.0U	1.0U	
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	11.30.99	---	11.30.99	11.30.99	---
Analysis Date	11.30.99	---	11.30.99	11.30.99	---
Batch ID	1130A	---	1130A	1130A	---

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17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Iron (6010)					
Iron, mg/l	9.9	---	1.5	7.7	---
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	12.03.99	---	12.03.99	12.03.99	---
Analysis Date	12.09.99	---	12.09.99	12.10.99	---
Batch ID	1203K	---	1203K	1203K	---
Manganese (6010)					
Manganese, mg/l	0.59	---	3.1	1.3	---
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	12.03.99	---	12.03.99	12.03.99	---
Analysis Date	12.09.99	---	12.09.99	12.10.99	---
Batch ID	1203K	---	1203K	1203K	---
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	2.4	---	0.050U	3.9	---
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	12.03.99	---	12.03.99	12.03.99	---
Analysis Date	12.10.99	---	12.10.99	12.10.99	---
Batch ID	1203E	---	1203E	1203E	---

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17951-1	MW-94S	11-23-99/09:45	SIO08
17951-1-RE	MW-94S	11-23-99/09:45	SIO08
17951-2	MW-95S	11-23-99/10:20	SIO08
17951-3	MW-83S	11-23-99/11:45	SIO08
17951-3-RE	MW-83S	11-23-99/11:45	SIO08

PARAMETER	17951-1	17951-1-RE	17951-2	17951-3	17951-3-RE
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.46	---	0.010U	1.2	---
Dilution Factor	1.0	---	1.0	1.0	---
Prep Date	12.03.99	---	12.03.99	12.03.99	---
Analysis Date	12.10.99	---	12.10.99	12.10.99	---
Batch ID	1203E	---	1203E	1203E	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	10U	1.0U	---	1.0U	---
Bromomethane (Methyl bromide), ug/l	10U	1.0U	---	1.0U	---
Vinyl chloride, ug/l	1600D	3.4	---	1.0U	---
Chloroethane, ug/l	10U	1.0U	---	1.0U	---
Methylene chloride (Dichloromethane), ug/l	50U	5.0U	---	5.0U	---
Acetone, ug/l	250U	25U	---	25U	---
Carbon disulfide, ug/l	10U	1.0U	---	1.0U	---
1,1-Dichloroethene, ug/l	10U	1.0U	---	1.0U	---
1,1-Dichloroethane, ug/l	10U	1.0U	---	1.0U	---
cis-1,2-Dichloroethene, ug/l	42D	1.0U	---	1.0U	---
trans-1,2-Dichloroethene, ug/l	10U	1.0U	---	1.0U	---
Chloroform, ug/l	10U	1.0U	---	1.0U	---
1,2-Dichloroethane, ug/l	7.2JD	1.0U	---	1.0U	---
2-Butanone (MEK), ug/l	100U	5.9J	---	10U	---
1,1,1-Trichloroethane, ug/l	10U	1.0U	---	1.0U	---
Carbon tetrachloride, ug/l	10U	1.0U	---	1.0U	---
Bromodichloromethane, ug/l	10U	1.0U	---	1.0U	---

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17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
1,1,2,2-Tetrachloroethane, ug/l	10U	1.0U	---	1.0U	---
1,2-Dichloropropane, ug/l	10U	1.0U	---	1.0U	---
trans-1,3-Dichloropropene, ug/l	10U	1.0U	---	1.0U	---
Trichloroethene, ug/l	10U	1.0U	---	2.1	---
Dibromochloromethane, ug/l	10U	1.0U	---	1.0U	---
1,1,2-Trichloroethane, ug/l	10U	1.0U	---	1.0U	---
Benzene, ug/l	10U	1.0U	---	1.0U	---
cis-1,3-Dichloropropene, ug/l	10U	1.0U	---	1.0U	---
Bromoform, ug/l	10U	1.0U	---	1.0U	---
2-Hexanone, ug/l	100U	10U	---	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	100U	10U	---	10U	---
Tetrachloroethene, ug/l	10U	1.0U	---	1.0U	---
Toluene, ug/l	10U	1.0U	---	0.33J	---
Chlorobenzene, ug/l	10U	1.0U	---	1.0U	---
Ethylbenzene, ug/l	160D	1.0U	---	1.0U	---
Styrene, ug/l	10U	1.0U	---	1.0U	---
Xylenes, Total, ug/l	20U	2.0U	---	2.0U	---
Surrogate - Toluene-d8	92 %	92 %	---	88 %	---
Surrogate - 4-Bromofluorobenzene	96 %	92 %	---	90 %	---
Surrogate - Dibromofluoromethane	86 %	88 %	---	82 %	---
Dilution Factor	10.0	1.0	---	1.0	---
Analysis Date	12.03.99	12.03.99	---	12.02.99	---
Batch ID	2A1202	2A1202	---	2A1201	---

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17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
NIST Library Search (VOC-TIC)		*		*	
Dissolved Gases in Water					
N, ug/l	---	12000	13000DJ	12000	13000D
Total Oxygen, ug/l	---	1100E	2000D	990E	1600D
Carbon Dioxide (Dissolved), ug/l	---	2600	1200DJ	7300	8300D
Dilution Factor	---	1.0	4.0	1.0	2.0
Analysis Date	---	12.06.99	12.07.99	12.06.99	12.07.99
Batch ID	---	1C1206	1C1206	1C1206	1C1206
Dissolved Gases					
Methane, ug/l	---	4.8	---	0.14J	---
Ethane, ug/l	---	0.35U	---	0.35U	---
Ethene, ug/l	---	0.33U	---	0.33U	---
Dilution Factor	---	1.0	---	1.0	---
Analysis Date	---	12.02.99	---	12.02.99	---
Batch ID	---	1C1201	---	1C1201	---

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17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
Nitrite-N (353.2), mg/l		0.050U		0.026B	
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	11.24.99	---	11.24.99	---
Analysis Date	---	11.24.99	---	11.24.99	---
Batch ID	---	1124C	---	1124C	---
Nitrate-N (353.2), mg/l		0.034B		1.4	
Dilution Factor	---	1	---	1	---
Prep Date	---	11.24.99	---	11.24.99	---
Analysis Date	---	11.24.99	---	11.24.99	---
Batch ID	---	1206C	---	1206C	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l		96		50	
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.02.99	---	12.02.99	---
Analysis Date	---	12.02.99	---	12.02.99	---
Batch ID	---	1202A	---	1202A	---

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LOG NO: S9-17951
Received: 24 NOV 99
Reported: 19 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Kull (BBL) Project: SIO08/10258016/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
Sulfate as SO4 (375.4), mg/l		38		24	
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.01.99	---	12.01.99	---
Analysis Date	---	12.01.99	---	12.01.99	---
Batch ID	---	1201A	---	1201A	---
Chloride (325.2), mg/l		27		62	
Dilution Factor	---	1	---	1	---
Prep Date	---	11.30.99	---	11.30.99	---
Analysis Date	---	11.30.99	---	11.30.99	---
Batch ID	---	1130D	---	1130D	---
Ammonia (as N) (350.1), mg/l		0.19		0.030U	
Dilution Factor	---	1	---	1	---
Prep Date	---	12.02.99	---	12.02.99	---
Analysis Date	---	12.02.99	---	12.02.99	---
Batch ID	---	1202B	---	1202B	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
Total Phosphorus (365.4), mg/l		0.10U		0.12	
Dilution Factor	---	1	---	1	---
Prep Date	---	11.30.99	---	11.30.99	---
Analysis Date	---	12.03.99	---	12.03.99	---
Batch ID	---	1130B	---	1130B	---
Total Organic Carbon (9060), mg/l		1.6		1.2	
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.04.99	---	12.04.99	---
Analysis Date	---	12.04.99	---	12.04.99	---
Batch ID	---	1204B	---	1204B	---
Sulfide (376.2), mg/l		1.0U		1.0U	
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	11.30.99	---	11.30.99	---
Analysis Date	---	11.30.99	---	11.30.99	---
Batch ID	---	1130A	---	1130A	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
Iron (6010)					
Iron, mg/l	---	3.1	---	0.63	---
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.03.99	---	12.03.99	---
Analysis Date	---	12.10.99	---	12.10.99	---
Batch ID	---	1203K	---	1203K	---
Manganese (6010)					
Manganese, mg/l	---	0.47	---	0.11	---
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.03.99	---	12.03.99	---
Analysis Date	---	12.10.99	---	12.10.99	---
Batch ID	---	1203K	---	1203K	---
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	---	0.84	---	0.12	---
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.03.99	---	12.03.99	---
Analysis Date	---	12.10.99	---	12.10.99	---
Batch ID	---	1203E	---	1203E	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-3-DL	MW-83S	11-23-99/11:45	SIO08
17951-4	MW-58S	11-23-99/13:30	SIO08
17951-4-DL	MW-58S	11-23-99/13:30	SIO08
17951-5	MW-97S	11-23-99/15:00	SIO08
17951-5-DL	MW-97S	11-23-99/15:00	SIO08

PARAMETER	17951-3-DL	17951-4	17951-4-DL	17951-5	17951-5-DL
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	---	0.46	---	0.034	---
Dilution Factor	---	1.0	---	1.0	---
Prep Date	---	12.03.99	---	12.03.99	---
Analysis Date	---	12.10.99	---	12.10.99	---
Batch ID	---	1203E	---	1203E	---

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-6	MW-92S	11-23-99/12:20	SIO08

PARAMETER	17951-6
Volatiles by GC/MS (8260)	
Chloromethane, ug/l	1.4
Bromomethane (Methyl bromide), ug/l	1.0U
Vinyl chloride, ug/l	14
Chloroethane, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Acetone, ug/l	25U
Carbon disulfide, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Chloroform, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
1,1,1-Trichloroethane, ug/l	1.0U
Carbon tetrachloride, ug/l	1.0U
Bromodichloromethane, ug/l	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U
1,2-Dichloropropane, ug/l	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Dibromochloromethane, ug/l	1.0U

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-6	MW-92S	11-23-99/12:20	SIO08

PARAMETER	17951-6
1,1,2-Trichloroethane, ug/l	1.0U
Benzene, ug/l	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U
Bromoform, ug/l	1.0U
2-Hexanone, ug/l	10U
4-Methyl-2-pentanone (MIBK), ug/l	10U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Styrene, ug/l	1.0U
Xylenes, Total, ug/l	2.0U
Surrogate - Toluene-d8	94 %
Surrogate - 4-Bromofluorobenzene	88 %
Surrogate - Dibromofluoromethane	80 %
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	2A1201

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-7	Trip Blank	11-23-99/09:00	SIO08

PARAMETER	17951-7
Volatiles by GC/MS (8260)	
Chloromethane, ug/l	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Chloroethane, ug/l	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U
Acetone, ug/l	25U
Carbon disulfide, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Chloroform, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
1,1,1-Trichloroethane, ug/l	1.0U
Carbon tetrachloride, ug/l	1.0U
Bromodichloromethane, ug/l	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U
1,2-Dichloropropane, ug/l	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Dibromochloromethane, ug/l	1.0U

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Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-7	Trip Blank	11-23-99/09:00	SIO08

PARAMETER	17951-7
1,1,2-Trichloroethane, ug/l	1.0U
Benzene, ug/l	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U
Bromoform, ug/l	1.0U
2-Hexanone, ug/l	10U
4-Methyl-2-pentanone (MIBK), ug/l	10U
Tetrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Styrene, ug/l	1.0U
Xylenes, Total, ug/l	2.0U
Surrogate - Toluene-d8	88 %
Surrogate - 4-Bromofluorobenzene	84 %
Surrogate - Dibromofluoromethane	84 %
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	2A1201
Dissolved Gases	
Methane, ug/l	0.19U
Ethane, ug/l	0.35U
Ethene, ug/l	0.33U
Dilution Factor	1.0
Analysis Date	12.02.99
Batch ID	1C1201

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-7	Trip Blank	11-23-99/09:00	SIO08

PARAMETER	17951-7
Dissolved Gases in Water	
N, ug/l	1300J
Total Oxygen, ug/l	470
Carbon Dioxide (Dissolved), ug/l	2600U
Dilution Factor	1.0
Analysis Date	12.06.99
Batch ID	1C1206

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	---	---	---	---
Bromomethane (Methyl bromide), ug/l	1.0U	---	---	---	---
Vinyl chloride, ug/l	1.0U	---	---	---	---
Chloroethane, ug/l	1.0U	---	---	---	---
Methylene chloride (Dichloromethane), ug/l	5.0U	---	---	---	---
Acetone, ug/l	25U	---	---	---	---
Carbon disulfide, ug/l	1.0U	---	---	---	---
1,1-Dichloroethene, ug/l	1.0U	80 %	46-147 %	86 %	84 %
1,1-Dichloroethane, ug/l	1.0U	---	---	---	---
cis-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
trans-1,2-Dichloroethene, ug/l	1.0U	---	---	---	---
Chloroform, ug/l	1.0U	---	---	---	---
1,2-Dichloroethane, ug/l	1.0U	---	---	---	---
2-Butanone (MEK), ug/l	10U	---	---	---	---
1,1,1-Trichloroethane, ug/l	1.0U	---	---	---	---
Carbon tetrachloride, ug/l	1.0U	---	---	---	---

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REPORT OF RESULTS

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17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Bromodichloromethane, ug/l	1.0U	---	---	---	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	---	---	---	---
1,2-Dichloropropane, ug/l	1.0U	---	---	---	---
trans-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Trichloroethene, ug/l	1.0U	94 %	56-143 %	98 %	96 %
Dibromochloromethane, ug/l	1.0U	---	---	---	---
1,1,2-Trichloroethane, ug/l	1.0U	---	---	---	---
Benzene, ug/l	1.0U	90 %	62-135 %	96 %	92 %
cis-1,3-Dichloropropene, ug/l	1.0U	---	---	---	---
Bromoform, ug/l	1.0U	---	---	---	---
2-Hexanone, ug/l	10U	---	---	---	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	---	---	---	---
Tetrachloroethene, ug/l	1.0U	---	---	---	---
Toluene, ug/l	1.0U	92 %	68-131 %	91 %	87 %
Chlorobenzene, ug/l	1.0U	88 %	72-127 %	92 %	92 %
Ethylbenzene, ug/l	1.0U	---	---	---	---
Styrene, ug/l	1.0U	---	---	---	---
Xylenes, Total, ug/l	2.0U	---	---	---	---
Surrogate - Toluene-d8	86 %	96 %	77-122 %	92 %	90 %
Surrogate - 4-Bromofluorobenzene	92 %	96 %	74-126 %	92 %	96 %
Surrogate - Dibromofluoromethane	82 %	86 %	70-130 %	86 %	84 %
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Analysis Date	12.01.99	12.01.99	12.01.99	12.03.99	12.03.99
Batch ID	2A1201	2A1201	2A1201	2A1202	2A1202

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Dissolved Gases in Water					
N, ug/l	5000U	---	---	---	---
Total Oxygen, ug/l	100U	---	---	---	---
Carbon Dioxide (Dissolved), ug/l	2600U	100 %	75-125 %	---	---
Analysis Date	12.06.99	12.06.99	12.06.99	---	---
Batch ID	1C1206	1C1206	1C1206	---	---
Dissolved Gases					
Methane, ug/l	0.19U	103 %	75-125 %	-204 %	-140 %
Ethane, ug/l	0.35U	94 %	75-125 %	44 %	52 %
Ethene, ug/l	0.33U	106 %	75-125 %	39 %	46 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Analysis Date	12.01.99	12.01.99	---	12.02.99	12.02.99
Batch ID	1C1201	1C1201	---	1C1201	1C1201
Nitrite-N (353.2), mg/l	0.050U	101 %	80-120 %	82 %	81 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Analysis Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Batch ID	1124C	1124C	---	1124C	1124C

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Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Kull (BBL) Project: SIO08/10258016/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Nitrate-N (353.2), mg/l	0.050U	84 %	80-120 %	24 %	30 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Analysis Date	11.24.99	11.24.99	---	11.24.99	11.24.99
Batch ID	1206C	1206C	---	1206B	1206B
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	1.0U	98 %	80-120 %	---	---
Dilution Factor	1.0	1.0	---	---	---
Prep Date	12.02.99	12.02.99	---	---	---
Analysis Date	12.02.99	12.02.99	---	---	---
Batch ID	1202A	1202A	---	---	---
Sulfate as SO4 (375.4), mg/l	2.2B	78 %	75-125 %	118 %	119 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Analysis Date	12.01.99	12.01.99	---	12.01.99	12.01.99
Batch ID	1201A	1201A	---	1201A	1201A

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LOG NO: S9-17951
Received: 24 NOV 99
Reported: 19 JAN 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Kull (BBL) Project: SIO08/10258016/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Chloride (325.2), mg/l	1.0U	91 %	85-115 %	88 %	90 %
Dilution Factor	1.0	1.0	---	5.0	5.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Batch ID	1130D	1130D	---	1130E	1130E
Ammonia (as N) (350.1), mg/l	0.030U	105 %	85-115 %	118 %	117 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.02.99	12.02.99	---	12.02.99	12.02.99
Analysis Date	12.02.99	12.02.99	---	12.02.99	12.02.99
Batch ID	1202B	1202B	---	1202B	1202B
Total Phosphorus (365.4), mg/l	0.089B	104 %	60-140 %	93 %	94 %
Dilution Factor	1	1	---	1	1
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	12.03.99	12.03.99	---	12.03.99	12.03.99
Batch ID	1130B	1130B	---	1130B	1130B

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Indian Orchard, MA 01151

Contract No.: S7219
CC: Caron Kull (BBL) Project: SIO08/10258016/SOLUTIA-INDIAN ORCHARD PLANT
Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Total Organic Carbon (415.1), mg/l	1.0U	93 %	80-120 %	100 %	98 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.04.99	12.04.99	---	12.04.99	12.04.99
Analysis Date	12.04.99	12.04.99	---	12.04.99	12.05.99
Batch ID	1204B	1204B	---	1204B	1204B
Sulfide (376.2), mg/l	1.0U	92 %	80-120 %	87 %	86 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Analysis Date	11.30.99	11.30.99	---	11.30.99	11.30.99
Batch ID	1130A	1130A	---	1130A	1130A
Iron (6010)					
Iron, mg/l	0.050U	115 %	75-125 %	39 %	49 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.03.99	12.03.99	---	12.03.99	12.03.99
Analysis Date	12.09.99	12.09.99	---	12.10.99	12.10.99
Batch ID	1203K	1203K	---	1203K	1203K

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Sampled By: Client
Code: 172800119

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-8	Method Blank		SIO08
17951-9	Lab Control Standard % Recovery		SIO08
17951-10	LCS Accuracy Control Limit (%R)		SIO08
17951-11	Matrix Spike % Recovery		SIO08
17951-12	Matrix Spike Duplicate % Recovery		SIO08

PARAMETER	17951-8	17951-9	17951-10	17951-11	17951-12
Manganese (6010)					
Manganese, mg/l	0.010U	115 %	75-125 %	103 %	101 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.03.99	12.03.99	---	12.03.99	12.03.99
Analysis Date	12.09.99	12.09.99	---	12.10.99	12.10.99
Batch ID	1203K	1203K	---	1203K	1203K
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.050U	119 %	75-125 %	39 %	49 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.03.99	12.03.99	---	12.03.99	12.03.99
Analysis Date	12.10.99	12.10.99	---	12.10.99	12.10.99
Batch ID	1203E	1203E	---	1203E	1203E
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.010U	114 %	75-125 %	103 %	101 %
Dilution Factor	1.0	1.0	---	1.0	1.0
Prep Date	12.03.99	12.03.99	---	12.03.99	12.03.99
Analysis Date	12.10.99	12.10.99	---	12.10.99	12.10.99
Batch ID	1203E	1203E	---	1203E	1203E

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-13	MS Accuracy Advisory Limit (%R)		SIO08
17951-14	Precision (%RPD) MS/MSD		SIO08
17951-15	MS Precision Advisory Limit (%RPD)		SIO08
17951-16	Method Blank		SIO08
17951-17	Lab Control Standard % Recovery		SIO08

PARAMETER	17951-13	17951-14	17951-15	17951-16	17951-17
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	---	---	---	1.0U	---
Bromomethane (Methyl bromide), ug/l	---	---	---	1.0U	---
Vinyl chloride, ug/l	---	---	---	1.0U	---
Chloroethane, ug/l	---	---	---	1.0U	---
Methylene chloride (Dichloromethane), ug/l	---	---	---	5.0U	---
Acetone, ug/l	---	---	---	25U	---
Carbon disulfide, ug/l	---	---	---	1.0U	---
1,1-Dichloroethene, ug/l	46-147 %	2 %	<30 %	1.0U	82 %
1,1-Dichloroethane, ug/l	---	---	---	1.0U	---
cis-1,2-Dichloroethene, ug/l	---	---	---	1.0U	---
trans-1,2-Dichloroethene, ug/l	---	---	---	1.0U	---
Chloroform, ug/l	---	---	---	1.0U	---
1,2-Dichloroethane, ug/l	---	---	---	1.0U	---
2-Butanone (MEK), ug/l	---	---	---	10U	---
1,1,1-Trichloroethane, ug/l	---	---	---	1.0U	---
Carbon tetrachloride, ug/l	---	---	---	1.0U	---
Bromodichloromethane, ug/l	---	---	---	1.0U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-13	MS Accuracy Advisory Limit (%R)		SIO08
17951-14	Precision (%RPD) MS/MSD		SIO08
17951-15	MS Precision Advisory Limit (%RPD)		SIO08
17951-16	Method Blank		SIO08
17951-17	Lab Control Standard % Recovery		SIO08

PARAMETER	17951-13	17951-14	17951-15	17951-16	17951-17
1,1,2,2-Tetrachloroethane, ug/l	---	---	---	1.0U	---
1,2-Dichloropropane, ug/l	---	---	---	1.0U	---
trans-1,3-Dichloropropene, ug/l	---	---	---	1.0U	---
Trichloroethene, ug/l	56-143 %	2 %	<35 %	1.0U	92 %
Dibromochloromethane, ug/l	---	---	---	1.0U	---
1,1,2-Trichloroethane, ug/l	---	---	---	1.0U	---
Benzene, ug/l	52-135 %	4 %	<37 %	1.0U	88 %
cis-1,3-Dichloropropene, ug/l	---	---	---	1.0U	---
Bromoform, ug/l	---	---	---	1.0U	---
2-Hexanone, ug/l	---	---	---	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	---	---	---	10U	---
Tetrachloroethene, ug/l	---	---	---	1.0U	---
Toluene, ug/l	68-131 %	4 %	<33 %	1.0U	92 %
Chlorobenzene, ug/l	72-127 %	0 %	<22 %	1.0U	92 %
Ethylbenzene, ug/l	---	---	---	1.0U	---
Styrene, ug/l	---	---	---	1.0U	---
Xylenes, Total, ug/l	---	---	---	2.0U	---
Surrogate - Toluene-d8	77-122 %	2 %	---	96 %	96 %
Surrogate - 4-Bromofluorobenzene	74-126 %	4 %	---	98 %	98 %
Surrogate - Dibromofluoromethane	70-130 %	2 %	---	90 %	88 %
Dilution Factor	---	1.0	1.0	1.0	1.0
Analysis Date	---	12.03.99	12.03.99	12.02.99	12.02.99
Batch ID	---	2A1202	2A1202	2A1202	2A1202

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-13	MS Accuracy Advisory Limit (%R)		SIO08
17951-14	Precision (%RPD) MS/MSD		SIO08
17951-15	MS Precision Advisory Limit (%RPD)		SIO08
17951-16	Method Blank		SIO08
17951-17	Lab Control Standard % Recovery		SIO08

PARAMETER	17951-13	17951-14	17951-15	17951-16	17951-17
Dissolved Gases in Water					
N, ug/l	---	---	---	---	---
Dissolved Gases					
Methane,	75-125 %	-37 %	75-125 %	47U	100 %
Ethane,	75-125 %	17 %	75-125 %	88U	114 %
Ethene,	75-125 %	16 %	75-125 %	82U	124 %
Dilution Factor	---	---	---	1.0	1.0
Analysis Date	---	---	---	12.06.99	12.06.99
Batch ID	---	---	---	1C1206	1C1206
Nitrite-N (353.2), %	80-120 %	1.2 %	<30 %		
Nitrate-N (353.2), %	80-120 %	22 %	<30 %		
Alkalinity (to pH 4.5) as CaCO3 (310.1), %	---	---	---		
Sulfate as SO4 (375.4), %	75-125 %	0.84 %	<30 %		

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
17951-13	MS Accuracy Advisory Limit (%R)		SIO08
17951-14	Precision (%RPD) MS/MSD		SIO08
17951-15	MS Precision Advisory Limit (%RPD)		SIO08
17951-16	Method Blank		SIO08
17951-17	Lab Control Standard % Recovery		SIO08

PARAMETER	17951-13	17951-14	17951-15	17951-16	17951-17
Chloride (325.2), %	85-115 %	2.2 %	<30 %	1.0U	91 %
Dilution Factor	---	---	---	1.0	1.0
Prep Date	---	---	---	11.30.99	11.30.99
Analysis Date	---	---	---	11.30.99	11.30.99
Batch ID	---	---	---	1130E	1130E
Ammonia (as N) (350.1), %	85-115 %	0.85 %	<30 %		
Total Phosphorus (365.4), %	60-140 %	1.1 %	<40 %		
Total Organic Carbon (415.1), %	80-120 %	2.0 %	<25 %		
Sulfide (376.2), %	80-120 %	1.2 %	<25 %		
Iron (6010)					
Iron, %	75-125 %	23 %	<20 %	---	---
Manganese (6010)					
Manganese, %	75-125 %	2.0 %	<20 %	---	---
Iron (Dissolved) (6010)					
Iron (Dissolved), %	75-125 %	23 %	<20 %	---	---

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17951-13	MS Accuracy Advisory Limit (%R)		SIO08
17951-14	Precision (%RPD) MS/MSD		SIO08
17951-15	MS Precision Advisory Limit (%RPD)		SIO08
17951-16	Method Blank		SIO08
17951-17	Lab Control Standard % Recovery		SIO08

PARAMETER	17951-13	17951-14	17951-15	17951-16	17951-17
Manganese (Dissolved) (6010)					
Manganese (Dissolved), %	75-125 %	2.0 %	<20 %	---	---

Methods: EPA SW-846, Update III.

Elizabeth F. Beauchamp, Project Manager

L-2 April 2000

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LOG NO: S0-02550
Received: 20 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219

CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Sulfide (376.2), mg/l	0.10U	2.2	0.10U	0.10U	0.10U
Dilution Factor	1	5	1	1	1
Prep Date	04.26.00	04.26.00	04.26.00	04.26.00	04.26.00
Analysis Date	04.26.00	04.26.00	04.26.00	04.26.00	04.26.00
Batch ID	0426A	0426A	0426A	0426A	0426A
Iron (6010)					
Iron, mg/l	0.27	0.088	2.5	9.6	13
Dilution Factor	1	1	1	1	1
Prep Date	05.01.00	05.01.00	05.01.00	05.01.00	05.01.00
Analysis Date	05.05.00	05.05.00	05.05.00	05.05.00	05.05.00
Batch ID	0501L	0501L	0501L	0501L	0501L
Manganese (6010)					
Manganese, mg/l	0.099	0.0017B	0.41	1.8	1.3
Dilution Factor	1	1	1	1	1
Prep Date	05.01.00	05.01.00	05.01.00	05.01.00	05.01.00
Analysis Date	05.05.00	05.05.00	05.05.00	05.05.00	05.05.00
Batch ID	0501L	0501L	0501L	0501L	0501L

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Requisition: 10258.018
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CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.014B	0.050U	0.72	0.038B	0.050U
Dilution Factor	1	1	1	1	1
Prep Date	05.01.00	05.01.00	05.01.00	05.01.00	05.01.00
Analysis Date	05.05.00	05.05.00	05.05.00	05.05.00	05.05.00
Batch ID	0501H	0501H	0501H	0501H	0501H
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.0036B	0.010U	0.39	1.7	1.3
Dilution Factor	1	1	1	1	1
Prep Date	05.01.00	05.01.00	05.01.00	05.01.00	05.01.00
Analysis Date	05.05.00	05.05.00	05.05.00	05.05.00	05.05.00
Batch ID	0501H	0501H	0501H	0501H	0501H
Total Organic Carbon (415.1), mg/l	1.0U	35	1.7	1.0U	2.1
Dilution Factor	1	1	1	1	1
Prep Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Analysis Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Batch ID	0421B	0421B	0421B	0421B	0421B

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Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Dissolved Gases (SOP AR30)					
Methane, ug/l	47U	180	47U	47U	710
Ethane, ug/l	88U	88U	88U	88U	88U
Ethene, ug/l	82U	82U	82U	82U	82U
Carbon Dioxide, ug/l	1000J	610J	4700	4400	41000E
Oxygen, ug/l	770	7500	4200	6400	670
Nitrogen, ug/l	8400	91000	48000	73000	11000
Dilution Factor	1	1	1	1	1
Analysis Date	05.02.00	05.02.00	05.02.00	05.02.00	05.02.00
Batch ID	1C0502	1C0502	1C0502	1C0502	1C0502

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LOG NO: S0-02550
Received: 20 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U	1.0U	1.0U	40U
Vinyl chloride, ug/l	1.0U	12	3.3	5.2	110
Chloroethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U	0.92JB	5.0U	200U
Acetone, ug/l	25U	38	25U	25U	1000U
Carbon disulfide, ug/l	1.0U	1.8	1.0U	1.0U	40U
1,1-Dichloroethene, ug/l	0.23J	1.0U	1.0U	0.22J	40U
1,1-Dichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Chloroform, ug/l	1.0U	1.0U	1.0U	1.0U	40U
1,2-Dichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
2-Butanone (MEK), ug/l	10U	10U	10U	10U	400U
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Carbon tetrachloride, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Bromodichloromethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U

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Received: 20 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219

CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
1,2-Dichloropropane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Trichloroethene, ug/l	2.2	1.8	1.0U	1.0U	40U
Dibromochloromethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Benzene, ug/l	1.0U	1.0U	1.0U	1.0U	40U
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Bromoform, ug/l	1.0U	1.0U	1.0U	1.0U	40U
2-Hexanone, ug/l	10U	10U	10U	10U	400U
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U	10U	10U	400U
Tetrachloroethene, ug/l	1.0U	8.7	1.0U	1.0U	40U
Toluene, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Chlorobenzene, ug/l	1.0U	1.0U	1.0U	1.0U	40U
Ethylbenzene, ug/l	0.22J	0.43J	1.0U	1.0U	7000
Styrene, ug/l	1.0U	1.0U	1.0U	1.0U	630
Xylenes, Total, ug/l	2.0U	2.0U	2.0U	2.0U	80U
Surrogate - Toluene-d8	104 %	104 %	102 %	104 %	102 %
Surrogate - 4-Bromofluorobenzene	106 %	106 %	104 %	108 %	104 %
Surrogate - Dibromofluoromethane	114 %	120 %	118 %	112 %	116 %
1,2-Dichloroethene (total), ug/l	1.0U	12	1.0U	1.0U	40U
Dilution Factor	1	1	1	1	40
Analysis Date	05.02.00	05.02.00	05.02.00	05.02.00	05.02.00
Batch ID	2A0501	1A0502	1A0502	2A0501	2A0501

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LOG NO: S0-02550
Received: 20 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Ammonia (as N) (350.1), mg/l	0.030U	8.9	0.20	0.080	0.29
Dilution Factor	1	10	1	1	1
Prep Date	04.25.00	04.25.00	04.25.00	04.25.00	04.25.00
Analysis Date	04.25.00	04.25.00	04.25.00	04.25.00	04.25.00
Batch ID	0425A	0425B	0425A	0425A	0425A
Total Phosphorus (365.4), mg/l	0.042B	0.099B	0.096B	0.38	0.097B
Dilution Factor	1	1	1	1	1
Prep Date	04.26.00	04.26.00	04.26.00	04.26.00	04.26.00
Analysis Date	04.28.00	04.28.00	04.28.00	04.28.00	04.28.00
Batch ID	0426A	0426A	0426A	0426A	0426A
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	34	190	89	67	74
Dilution Factor	1	1	1	1	1
Prep Date	04.20.00	04.20.00	04.20.00	04.20.00	04.20.00
Analysis Date	04.20.00	04.20.00	04.20.00	04.20.00	04.20.00
Batch ID	0420A	0420A	0420A	0420A	0420A

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Chloride (325.2), mg/l	99	160	25	110	130
Dilution Factor	2	2	1	2	2
Prep Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Analysis Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Batch ID	0421B	0421B	0421B	0421C	0421C
Nitrate-N (353.2), mg/l	1.0	0.068	0.074	0.048B	1.1
Dilution Factor	2	1	1	1	2
Prep Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Analysis Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Batch ID	0421B	0421A	0421A	0421A	0421B
Nitrite-N (353.2), mg/l	0.050U	0.0095B	0.050U	0.050U	0.0086B
Dilution Factor	1	1	1	1	1
Prep Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Analysis Date	04.21.00	04.21.00	04.21.00	04.21.00	04.21.00
Batch ID	0421A	0421A	0421A	0421A	0421A

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Requisition: 10258.018
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Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-1	MW-97S	04-19-00/09:05	SIO09
02550-2	MW-96SF	04-19-00/10:00	SIO09
02550-3	MW-58S	04-19-00/12:15	SIO09
02550-4	MW-98D	04-19-00/14:45	SIO09
02550-5	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-1	02550-2	02550-3	02550-4	02550-5
Sulfate as SO4 (375.4), mg/l	14	40	21	12	11
Dilution Factor	1	1	1	1	1
Prep Date	05.08.00	05.08.00	05.08.00	05.08.00	05.08.00
Analysis Date	05.08.00	05.08.00	05.08.00	05.08.00	05.08.00
Batch ID	0508A	0508A	0508A	0508A	0508A

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Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-5-DL	MW-87S	04-19-00/16:45	SIO09

PARAMETER	02550-5-DL
Sulfide (376.2), mg/l	
Iron (6010)	
Manganese (6010)	
Iron (Dissolved) (6010)	
Manganese (Dissolved) (6010)	
Total Organic Carbon (415.1)	
Dissolved Gases (SOP AR30)	
Carbon Dioxide, ug/l	55000D
Dilution Factor	2
Analysis Date	05.03.00
Batch ID	1C0502
Volatiles by GC/MS (8260)	
Ammonia (as N) (350.1)	
Total Phosphorus (365.4), mg/l	
Alkalinity (to pH 4.5) as CaCO3 (310.1)	

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Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219

CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-5-DL	MW-87S	04-19-00/16:45	SI005

PARAMETER	02550-5-DL
Chloride (325.2)	
Nitrate-N (353.2)	
Nitrite-N (353.2)	
Sulfate as SO4 (375.4)	

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-6	MW-93B	04-19-00/11:10	SIO09
02550-7	MW-99S	04-19-00/15:45	SIO09
02550-8	Trip Blank	04-19-00	SIO09

PARAMETER	02550-6	02550-7	02550-8
Volatiles by GC/MS (8260)			
Chloromethane, ug/l	5.0U	1.0U	1.0U
Bromomethane (Methyl bromide), ug/l	5.0U	1.0U	1.0U
Vinyl chloride, ug/l	5.0U	1.0U	1.0U
Chloroethane, ug/l	5.0U	1.0U	1.0U
Methylene chloride (Dichloromethane), ug/l	25U	5.0U	0.86J
Acetone, ug/l	120U	25U	25U
Carbon disulfide, ug/l	5.0U	1.0U	1.0U
1,1-Dichloroethene, ug/l	5.0U	0.56J	1.0U
1,1-Dichloroethane, ug/l	5.0U	1.0U	1.0U
Chloroform, ug/l	5.0U	1.0U	1.0U
1,2-Dichloroethane, ug/l	5.0U	1.0U	1.0U
2-Butanone (MEK), ug/l	50U	10U	10U
1,1,1-Trichloroethane, ug/l	5.0U	1.0U	1.0U
Carbon tetrachloride, ug/l	5.0U	1.0U	1.0U
Bromodichloromethane, ug/l	5.0U	1.0U	1.0U
1,1,2,2-Tetrachloroethane, ug/l	5.0U	1.0U	1.0U
1,2-Dichloropropane, ug/l	5.0U	1.0U	1.0U
trans-1,3-Dichloropropene, ug/l	5.0U	1.0U	1.0U

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Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02550-6	MW-93B	04-19-00/11:10	SIO09
02550-7	MW-99S	04-19-00/15:45	SIO09
02550-8	Trip Blank	04-19-00	SIO09

PARAMETER	02550-6	02550-7	02550-8
Trichloroethene, ug/l	5.0U	1.0U	1.0U
Dibromochloromethane, ug/l	5.0U	1.0U	1.0U
1,1,2-Trichloroethane, ug/l	5.0U	1.0U	1.0U
Benzene, ug/l	5.0U	1.0U	1.0U
cis-1,3-Dichloropropene, ug/l	5.0U	1.0U	1.0U
Bromoform, ug/l	5.0U	1.0U	1.0U
2-Hexanone, ug/l	50U	10U	10U
4-Methyl-2-pentanone (MIBK), ug/l	50U	10U	10U
Tetrachloroethene, ug/l	5.0U	0.52J	1.0U
Toluene, ug/l	5.0U	1.0U	1.0U
Chlorobenzene, ug/l	5.0U	0.40J	1.0U
Ethylbenzene, ug/l	5.0U	1.0U	1.0U
Styrene, ug/l	5.0U	1.0U	1.0U
Xylenes, Total, ug/l	10U	2.0U	2.0U
Surrogate - Toluene-d8	104 %	104 %	104 %
Surrogate - 4-Bromofluorobenzene	106 %	108 %	108 %
Surrogate - Dibromofluoromethane	116 %	112 %	112 %
1,2-Dichloroethene (total), ug/l	5.0U	1.0U	1.0U
Dilution Factor	5	1	1
Analysis Date	05.02.00	05.02.00	05.02.00
Batch ID	1A0502	2A0501	2A0501

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730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 155000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID	DATE/ TIME SAMPLED	SDG#
02550-6	MW-93B	04-19-00/11:10	SIO09
02550-7	MW-99S	04-19-00/15:45	SIO09
02550-8	Trip Blank	04-19-00	SIO09

PARAMETER	02550-6	02550-7	02550-8

Methods: EPA SW-846, Update III and EPA 40 CFR Part 136.

U = Analyzed for but not detected.

J = Estimated amount, between the reporting limit and the method detection limit.

E (Organic) = Result exceeded the upper calibration limit.

B (Inorganic) = This flag indicates the reported value was obtained from a reading that was less than the Project Reporting Limits but greater than or equal to the Method Detection Limit (MDL).

Angie Stewart

Angie Stewart, Project Manager

Final Page Of Report

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LOG NO: S0-SIO09
Received: 20 APR 00
Reported: 16 MAY 00

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730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154600517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
Sulfide (376.2), mg/l	0.10U	0.10U	93 %	96 %	80-120 %
Dilution Factor	1	1	1	1	---
Prep Date	04.26.00	04.27.00	04.26.00	04.27.00	---
Analysis Date	04.26.00	04.27.00	04.26.00	04.27.00	---
Batch ID	0426A	0427A	0426A	0427A	---
Iron (6010)					
Iron, mg/l	0.050U	---	100 %	---	75-125 %
Dilution Factor	1	---	1	---	---
Prep Date	05.01.00	---	05.01.00	---	---
Analysis Date	05.05.00	---	05.05.00	---	---
Batch ID	0501L	---	0501L	---	---
Manganese (6010)					
Manganese, mg/l	0.010U	---	103 %	---	75-125 %
Dilution Factor	1	---	1	---	---
Prep Date	05.01.00	---	05.01.00	---	---
Analysis Date	05.05.00	---	05.05.00	---	---
Batch ID	0501L	---	0501L	---	---

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Requisition: 10258.018
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Sampled By: Client
Code: 154600517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.050U	---	103 %	---	75-125 %
Dilution Factor	1	---	1	---	---
Prep Date	05.01.00	---	05.01.00	---	---
Analysis Date	05.05.00	---	05.05.00	---	---
Batch ID	0501H	---	0501H	---	---
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.010U	---	104 %	---	75-125 %
Dilution Factor	1	---	1	---	---
Prep Date	05.01.00	---	05.01.00	---	---
Analysis Date	05.05.00	---	05.05.00	---	---
Batch ID	0501H	---	0501H	---	---
Total Organic Carbon (415.1), mg/l	1.0U	1.0U	103 %	104 %	80-120 %
Dilution Factor	1	1	1	1	---
Prep Date	04.21.00	04.26.00	04.21.00	04.26.00	---
Analysis Date	04.21.00	04.26.00	04.21.00	04.26.00	---
Batch ID	0421B	0426B	0421B	0426B	---

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LOG NO: S0-SIO09
Received: 20 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154600517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
Dissolved Gases (SOP AR30)					
Methane, ug/l	47U	---	96 %	---	75-125 %
Ethane, ug/l	88U	---	102 %	---	75-125 %
Ethene, ug/l	82U	---	85 %	---	75-125 %
Carbon Dioxide, ug/l	2600U	---	95 %	---	75-125 %
Oxygen, ug/l	500U	---	---	---	---
Nitrogen, ug/l	5000U	---	---	---	---
Dilution Factor	1	---	1	---	---
Analysis Date	05.02.00	---	05.02.00	---	---
Batch ID	1C0502	---	1C0502	---	---

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Code: 154600517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	1.0U	---	---	---
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U	---	---	---
Vinyl chloride, ug/l	1.0U	1.0U	---	---	---
Chloroethane, ug/l	1.0U	1.0U	---	---	---
Methylene chloride (Dichloromethane), ug/l	5.0U	2.4J	---	---	---
Acetone, ug/l	25U	25U	---	---	---
Carbon disulfide, ug/l	1.0U	1.0U	---	---	---
1,1-Dichloroethene, ug/l	1.0U	1.0U	112 %	110 %	46-147 %
1,1-Dichloroethane, ug/l	1.0U	1.0U	---	---	---
Chloroform, ug/l	1.0U	1.0U	---	---	---
1,2-Dichloroethane, ug/l	1.0U	1.0U	---	---	---
2-Butanone (MEK), ug/l	10U	10U	---	---	---
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	---	---	---
Carbon tetrachloride, ug/l	1.0U	1.0U	---	---	---
Bromodichloromethane, ug/l	1.0U	1.0U	---	---	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
1,2-Dichloropropane, ug/l	1.0U	1.0U	---	---	---
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U	---	---	---
Trichloroethene, ug/l	1.0U	1.0U	106 %	104 %	56-143 %
Dibromochloromethane, ug/l	1.0U	1.0U	---	---	---
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	---	---	---
Benzene, ug/l	1.0U	1.0U	104 %	102 %	62-135 %
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	---	---	---
Bromoform, ug/l	1.0U	1.0U	---	---	---
2-Hexanone, ug/l	10U	10U	---	---	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U	---	---	---
Tetrachloroethene, ug/l	1.0U	1.0U	---	---	---
Toluene, ug/l	1.0U	1.0U	104 %	104 %	68-131 %
Chlorobenzene, ug/l	1.0U	1.0U	110 %	112 %	72-127 %
Ethylbenzene, ug/l	1.0U	1.0U	---	---	---
Styrene, ug/l	1.0U	1.0U	---	---	---
Xylenes, Total, ug/l	2.0U	2.0U	---	---	---
Surrogate - Toluene-d8	102 %	104 %	104 %	106 %	77-122 %
Surrogate - 4-Bromofluorobenzene	106 %	106 %	106 %	106 %	74-126 %
Surrogate - Dibromofluoromethane	114 %	116 %	116 %	116 %	70-130 %
1,2-Dichloroethene (total), ug/l	1.0U	1.0U	---	---	---
Dilution Factor	1	1	1	1	---
Analysis Date	05.01.00	05.02.00	05.01.00	05.02.00	---
Batch ID	2A0501	1A0502	2A0501	1A0502	---

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Received: 20 APR 00
Reported: 16 MAY 00

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Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219

CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154600517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
Ammonia (as N) (350.1), mg/l	0.030U		110 %		85-115 %
Dilution Factor	1	---	1	---	---
Prep Date	04.25.00	---	04.25.00	---	---
Analysis Date	04.25.00	---	04.25.00	---	---
Batch ID	0425A	---	0425A	---	---
Total Phosphorus (365.4), mg/l	0.10U		100 %		60-140 %
Dilution Factor	1	---	1	---	---
Prep Date	04.26.00	---	04.26.00	---	---
Analysis Date	04.28.00	---	04.28.00	---	---
Batch ID	0426A	---	0426A	---	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	1.0U	1.0U	99 %	97 %	80-120 %
Dilution Factor	1	1	1	1	---
Prep Date	04.20.00	04.27.00	04.20.00	04.27.00	---
Analysis Date	04.20.00	04.27.00	04.20.00	04.27.00	---
Batch ID	0420A	0427A	0420A	0427A	---

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Requisition: 10258.018
Contract No.: S7219

CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154600517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
SIO09-1	Method Blank		SIO09
SIO09-9	Method Blank		SIO09
SIO09-2	Lab Control Standard % Recovery		SIO09
SIO09-10	Lab Control Standard % Recovery		SIO09
SIO09-3	LCS Accuracy Control Limit (%R)		SIO09

PARAMETER	SIO09-1	SIO09-9	SIO09-2	SIO09-10	SIO09-3
Nitrate-N (353.2), mg/l	0.018B	0.050U	117 %	119 %	80-120 %
Dilution Factor	1	1	1	1	---
Prep Date	04.21.00	04.21.00	04.21.00	04.21.00	---
Analysis Date	04.21.00	04.21.00	04.21.00	04.21.00	---
Batch ID	0421A	0503A	0421A	0503A	---
Nitrite-N (353.2), mg/l	0.050U	0.050U	94 %	99 %	80-120 %
Dilution Factor	1	1	1	1	---
Prep Date	04.21.00	04.21.00	04.21.00	04.21.00	---
Analysis Date	04.21.00	04.21.00	04.21.00	04.21.00	---
Batch ID	0421A	0421B	0421A	0421B	---
Sulfate as SO4 (375.4), mg/l	5.0U		116 %		75-125 %
Dilution Factor	1	---	1	---	---
Prep Date	05.08.00	---	05.08.00	---	---
Analysis Date	05.08.00	---	05.08.00	---	---
Batch ID	0805A	---	0508A	---	---

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LOG NO: S0-02591
Received: 21 APR 00
Reported: 16 MAY 00

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730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Sulfide (376.2), mg/l	0.10U	0.10U		0.10U	
Dilution Factor	1	1	---	1	---
Prep Date	04.27.00	04.27.00	---	04.27.00	---
Analysis Date	04.27.00	04.27.00	---	04.27.00	---
Batch ID	0427A	0427A	---	0427A	---
Iron (6010)					
Iron, mg/l	0.068	1.4	---	16	---
Dilution Factor	1	1	---	1	---
Prep Date	05.01.00	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	05.05.00	---	05.05.00	---
Batch ID	0501L	0501L	---	0501L	---
Manganese (6010)					
Manganese, mg/l	0.65	1.3	---	0.75	---
Dilution Factor	1	1	---	1	---
Prep Date	05.01.00	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	05.05.00	---	05.05.00	---
Batch ID	0501L	0501L	---	0501L	---

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LOG NO: S0-02591
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Requisition: 10258.018
Contract No.: S7219

CC: Caron Koll (BBL)

Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Iron (Dissolved) (6010)					
Iron (Dissolved), mg/l	0.050U	0.014B	---	0.056	---
Dilution Factor	1	1	---	1	---
Prep Date	05.01.00	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	05.05.00	---	05.05.00	---
Batch ID	0501H	0501H	---	0501H	---
Manganese (Dissolved) (6010)					
Manganese (Dissolved), mg/l	0.010U	1.2	---	0.72	---
Dilution Factor	1	1	---	1	---
Prep Date	05.01.00	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	05.05.00	---	05.05.00	---
Batch ID	0501H	0501H	---	0501H	---
Total Organic Carbon (415.1), mg/l	1.0U	1.7		37	
Dilution Factor	1	1	---	1	---
Prep Date	04.26.00	04.26.00	---	04.26.00	---
Analysis Date	04.26.00	04.26.00	---	04.26.00	---
Batch ID	0426A	0426A	---	0426B	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Dissolved Gases (SOP AR30)					
Methane, ug/l	47U	1200	---	4000	---
Ethane, ug/l	88U	73J	---	88U	---
Ethene, ug/l	82U	220	---	82U	---
Carbon Dioxide, ug/l	2400J	29000	---	67000E	73000D
Oxygen, ug/l	4900	6500	---	2500	---
Nitrogen, ug/l	51000	74000	---	30000	---
Dilution Factor	1	1	---	1	4
Analysis Date	05.02.00	05.02.00	---	05.02.00	05.03.00
Batch ID	1C0502	1C0502	---	1C0502	1C0502

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	1.0U	1.0U	25U	1.0U	---
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U	25U	1.0U	---
Vinyl chloride, ug/l	1.0U	2100E	4000D	1.2	---
Chloroethane, ug/l	1.0U	1.0U	25U	1.0U	---
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U	22DJB	1.3JB	---
Acetone, ug/l	25U	25U	620U	25U	---
Carbon disulfide, ug/l	1.0U	1.0U	25U	1.0U	---
1,1-Dichloroethene, ug/l	1.0U	1.0U	25U	1.0U	---
1,1-Dichloroethane, ug/l	1.0U	1.0U	25U	1.0U	---
Chloroform, ug/l	1.0U	1.0U	25U	1.0U	---
1,2-Dichloroethane, ug/l	1.0U	5.4	25U	1.0U	---
2-Butanone (MEK), ug/l	10U	10U	250U	6.8J	---
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	25U	1.0U	---
Carbon tetrachloride, ug/l	1.0U	1.0U	25U	1.0U	---
Bromodichloromethane, ug/l	1.0U	1.0U	25U	1.0U	---
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U	25U	1.0U	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
1,2-Dichloropropane, ug/l	1.0U	1.0U	25U	1.0U	---
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U	25U	1.0U	---
Trichloroethene, ug/l	1.0U	1.0U	25U	1.0U	---
Dibromochloromethane, ug/l	1.0U	1.0U	25U	1.0U	---
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	25U	1.0U	---
Benzene, ug/l	1.0U	9.4	25U	1.0U	---
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	25U	1.0U	---
Bromoform, ug/l	1.0U	1.0U	25U	1.0U	---
2-Hexanone, ug/l	10U	10U	250U	10U	---
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U	250U	10U	---
Tetrachloroethene, ug/l	1.0U	1.0U	25U	1.0U	---
Toluene, ug/l	1.0U	17	21DJ	0.62J	---
Chlorobenzene, ug/l	0.36J	1.0U	25U	2.3	---
Ethylbenzene, ug/l	1.0U	110	120D	25	---
Styrene, ug/l	1.0U	1.0U	25U	1.0U	---
Xylenes, Total, ug/l	0.46J	0.62J	50U	150	---
Surrogate - Toluene-d8	102 %	104 %	104 %	104 %	---
Surrogate - 4-Bromofluorobenzene	108 %	106 %	104 %	106 %	---
Surrogate - Dibromofluoromethane	112 %	112 %	118 %	116 %	---
1,2-Dichloroethene (total), ug/l	1.0U	0.85J	25U	1.0U	---
Dilution Factor	1	1	25	1	---
Analysis Date	05.02.00	05.02.00	05.02.00	05.02.00	---
Batch ID	2A0501	2A0501	1A0502	1A0502	---

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LOG NO: S0-02591
Received: 21 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Ammonia (as N) (350.1), mg/l	0.030U	0.44		20	
Dilution Factor	1	1	---	20	---
Prep Date	05.03.00	05.03.00	---	05.03.00	---
Analysis Date	05.03.00	05.03.00	---	05.03.00	---
Batch ID	0503A	0503A	---	0503A	---
Total Phosphorus (365.4), mg/l	0.053B	0.14		0.22	
Dilution Factor	1	1	---	1	---
Prep Date	04.26.00	04.26.00	---	04.26.00	---
Analysis Date	04.28.00	04.28.00	---	04.28.00	---
Batch ID	0426A	0426A	---	0426A	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	65	200		260	
Dilution Factor	1	1	---	1	---
Prep Date	04.27.00	04.27.00	---	04.27.00	---
Analysis Date	04.27.00	04.27.00	---	04.27.00	---
Batch ID	0427A	0427A	---	0427A	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Chloride (325.2), mg/l	140	180		18	
Dilution Factor	2	2	---	1	---
Prep Date	05.03.00	05.03.00	---	05.03.00	---
Analysis Date	05.03.00	05.03.00	---	05.03.00	---
Batch ID	0503B	0503B	---	0503A	---
Nitrate-N (353.2), mg/l	1.1	0.050U		0.050U	
Dilution Factor	1	1	---	1	---
Prep Date	04.21.00	04.21.00	---	04.21.00	---
Analysis Date	04.21.00	04.21.00	---	04.21.00	---
Batch ID	0505A	0505A	---	0505A	---
Nitrite-N (353.2), mg/l	0.050U	0.050U		0.0082B	
Dilution Factor	1	1	---	1	---
Prep Date	04.21.00	04.21.00	---	04.21.00	---
Analysis Date	04.21.00	04.21.00	---	04.21.00	---
Batch ID	0421B	0421B	---	0421B	---

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG
02591-1	MW-95S	04-20-00/09:15	SIO09
02591-2	MW-93A	04-20-00/15:00	SIO09
02591-2-DL	MW-93A	04-20-00/15:00	SIO09
02591-3	MW-94S	04-20-00/15:20	SIO09
02591-3-DL	MW-94S	04-20-00/15:20	SIO09

PARAMETER	02591-1	02591-2	02591-2-DL	02591-3	02591-3-DL
Sulfate as SO4 (375.4), mg/l	25	11		5.0U	
Dilution Factor	1	1	---	1	---
Prep Date	05.08.00	05.08.00	---	05.08.00	---
Analysis Date	05.08.00	05.08.00	---	05.08.00	---
Batch ID	0508A	0508A	---	0508A	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO09
02591-5	MW-83S	04-20-00/16:45	SIO09
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
Sulfide (376.2), mg/l	0.10U		0.10U	
Dilution Factor	1	---	1	---
Prep Date	04.27.00	---	04.27.00	---
Analysis Date	04.27.00	---	04.27.00	---
Batch ID	0427A	---	0427A	---
Iron (6010)				
Iron, mg/l	12	---	11	---
Dilution Factor	1	---	1	---
Prep Date	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	---	05.05.00	---
Batch ID	0501L	---	0501L	---
Manganese (6010)				
Manganese, mg/l	2.0	---	2.0	---
Dilution Factor	1	---	1	---
Prep Date	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	---	05.05.00	---
Batch ID	0501L	---	0501L	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG
02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO0[illegible]
02591-5	MW-83S	04-20-00/16:45	SIO0[illegible]
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
Iron (Dissolved) (6010)				
Iron (Dissolved), mg/l	0.050U	---	0.050U	---
Dilution Factor	1	---	1	---
Prep Date	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	---	05.05.00	---
Batch ID	0501H	---	0501H	---
Manganese (Dissolved) (6010)				
Manganese (Dissolved), mg/l	2.0	---	2.0	---
Dilution Factor	1	---	1	---
Prep Date	05.01.00	---	05.01.00	---
Analysis Date	05.05.00	---	05.05.00	---
Batch ID	0501H	---	0501H	---
Total Organic Carbon (415.1), mg/l	3.1		3.0	
Dilution Factor	1	---	1	---
Prep Date	04.26.00	---	04.26.00	---
Analysis Date	04.26.00	---	04.26.00	---
Batch ID	0426B	---	0426B	---

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO09
02591-5	MW-83S	04-20-00/16:45	SIO09
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
Dissolved Gases (SOP AR30)				
Methane, ug/l	660	---	580	---
Ethane, ug/l	88U	---	88U	---
Ethene, ug/l	48J	---	47J	---
Carbon Dioxide, ug/l	47000E	55000D	48000E	49000D
Oxygen, ug/l	12000	---	2300	---
Nitrogen, ug/l	140000	---	28000	---
Dilution Factor	1	2	1	2
Analysis Date	05.02.00	05.03.00	05.02.00	05.03.00
Batch ID	1C0502	1C0502	1C0502	1C0502

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REPORT OF RESULTS

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02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO09
02591-5	MW-83S	04-20-00/16:45	SIO09
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
Volatiles by GC/MS (8260)				
Chloromethane, ug/l	1.0U	20U	1.0U	20U
Bromomethane (Methyl bromide), ug/l	1.0U	20U	1.0U	20U
Vinyl chloride, ug/l	1600E	2200D	1700E	2300D
Chloroethane, ug/l	1.0U	20U	1.0U	20U
Methylene chloride (Dichloromethane), ug/l	5.0U	18DJB	0.89J	100U
Acetone, ug/l	25U	500U	25U	500U
Carbon disulfide, ug/l	1.0U	20U	1.0U	20U
1,1-Dichloroethene, ug/l	0.36J	20U	0.42J	20U
1,1-Dichloroethane, ug/l	1.0U	20U	1.0U	20U
Chloroform, ug/l	1.0U	20U	1.0U	20U
1,2-Dichloroethane, ug/l	7.5	20U	7.4	20U
2-Butanone (MEK), ug/l	10U	200U	10U	200U
1,1,1-Trichloroethane, ug/l	1.0U	20U	1.0U	20U
Carbon tetrachloride, ug/l	1.0U	20U	1.0U	20U
Bromodichloromethane, ug/l	1.0U	20U	1.0U	20U
1,1,2,2-Tetrachloroethane, ug/l	1.0U	20U	1.0U	20U
1,2-Dichloropropane, ug/l	1.0U	20U	1.0U	20U

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO09
02591-5	MW-83S	04-20-00/16:45	SIO09
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
trans-1,3-Dichloropropene, ug/l	1.0U	20U	1.0U	20U
Trichloroethene, ug/l	1.5	20U	1.6	20U
Dibromochloromethane, ug/l	1.0U	20U	1.0U	20U
1,1,2-Trichloroethane, ug/l	1.0U	20U	0.15J	20U
Benzene, ug/l	1.0U	20U	1.0U	20U
cis-1,3-Dichloropropene, ug/l	1.0U	20U	1.0U	20U
Bromoform, ug/l	1.0U	20U	1.0U	20U
2-Hexanone, ug/l	10U	200U	1.7J	200U
4-Methyl-2-pentanone (MIBK), ug/l	10U	200U	1.4J	200U
Tetrachloroethene, ug/l	1.0U	20U	1.0U	20U
Toluene, ug/l	1.4	20U	1.5	20U
Chlorobenzene, ug/l	1.0U	20U	1.0U	20U
Ethylbenzene, ug/l	55	63D	57	59D
Styrene, ug/l	2.0	20U	2.0	20U
Xylenes, Total, ug/l	2.0U	40U	0.49J	40U
Surrogate - Toluene-d8	104 %	104 %	104 %	102 %
Surrogate - 4-Bromofluorobenzene	108 %	104 %	108 %	106 %
Surrogate - Dibromofluoromethane	112 %	116 %	112 %	116 %
1,2-Dichloroethene (total), ug/l	89	90D	91	97D
Dilution Factor	1	20	1	20
Analysis Date	05.02.00	05.02.00	05.02.00	05.02.00
Batch ID	2A0501	1A0502	2A0501	1A0502

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REPORT OF RESULTS

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02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO[illegible]
02591-5	MW-83S	04-20-00/16:45	SIO[illegible]
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
Ammonia (as N) (350.1), mg/l	1.1		0.91	
Dilution Factor	1	---	1	---
Prep Date	05.03.00	---	05.03.00	---
Analysis Date	05.03.00	---	05.03.00	---
Batch ID	0503A	---	0503A	---
Total Phosphorus (365.4), mg/l	0.078B		0.081B	
Dilution Factor	1	---	1	---
Prep Date	04.26.00	---	04.26.00	---
Analysis Date	04.28.00	---	04.28.00	---
Batch ID	0426A	---	0426A	---
Alkalinity (to pH 4.5) as CaCO3 (310.1), mg/l	100		99	
Dilution Factor	1	---	1	---
Prep Date	04.27.00	---	04.27.00	---
Analysis Date	04.27.00	---	04.27.00	---
Batch ID	0427A	---	0427A	---

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02591-4	DUP-1	04-20-00	SIO09
02591-4-DL	DUP-1	04-20-00	SIO09
02591-5	MW-83S	04-20-00/16:45	SIO09
02591-5-DL	MW-83S	04-20-00/16:45	SIO09

PARAMETER	02591-4	02591-4-DL	02591-5	02591-5-DL
Chloride (325.2), mg/l	180		180	
Dilution Factor	2	---	2	---
Prep Date	05.03.00	---	05.03.00	---
Analysis Date	05.03.00	---	05.03.00	---
Batch ID	0503B	---	0503B	---
Nitrate-N (353.2), mg/l	1.5		1.4	
Dilution Factor	1	---	1	---
Prep Date	04.21.00	---	04.21.00	---
Analysis Date	04.21.00	---	04.21.00	---
Batch ID	0505A	---	0505A	---
Nitrite-N (353.2), mg/l	0.018B		0.016B	
Dilution Factor	1	---	1	---
Prep Date	04.21.00	---	04.21.00	---
Analysis Date	04.21.00	---	04.21.00	---
Batch ID	0421B	---	0421B	---
Sulfate as SO4 (375.4), mg/l	20		28	
Dilution Factor	1	---	1	---
Prep Date	05.08.00	---	05.08.00	---
Analysis Date	05.08.00	---	05.08.00	---
Batch ID	0508A	---	0508A	---

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG
02591-6	MW-60S	04-20-00/09:15	SIO09
02591-7	MW-84S	04-20-00/11:30	SIO0[illegible]
02591-8	MW-59S	04-20-00/14:00	SIO0[illegible]
02591-9	Trip Blank-2	04-20-00	SIO0[illegible]

PARAMETER	02591-6	02591-7	02591-8	02591-9
Volatiles by GC/MS (8260)				
Chloromethane, ug/l	1.0U	1.0U	1.0U	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U	1.0U	1.0U	1.0U
Vinyl chloride, ug/l	1.0U	1.0U	1.0U	1.0U
Chloroethane, ug/l	1.0U	1.0U	1.0U	1.0U
Methylene chloride (Dichloromethane), ug/l	5.0U	5.0U	5.0U	1.1JB
Acetone, ug/l	25U	25U	25U	25U
Carbon disulfide, ug/l	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethene, ug/l	1.0U	1.0U	0.28J	1.0U
1,1-Dichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U
Chloroform, ug/l	1.0U	1.0U	1.0U	1.0
1,2-Dichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U
2-Butanone (MEK), ug/l	10U	10U	10U	10U
1,1,1-Trichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U
Carbon tetrachloride, ug/l	1.0U	1.0U	1.0U	1.0U
Bromodichloromethane, ug/l	1.0U	1.0U	1.0U	0.70J
1,1,2,2-Tetrachloroethane, ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichloropropane, ug/l	1.0U	1.0U	1.0U	1.0U

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02591-6	MW-60S	04-20-00/09:15	SIO09
02591-7	MW-84S	04-20-00/11:30	SIO09
02591-8	MW-59S	04-20-00/14:00	SIO09
02591-9	Trip Blank-2	04-20-00	SIO09

PARAMETER	02591-6	02591-7	02591-8	02591-9
trans-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	1.0U
Trichloroethene, ug/l	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane, ug/l	1.0U	1.0U	1.0U	0.25J
1,1,2-Trichloroethane, ug/l	1.0U	1.0U	1.0U	1.0U
Benzene, ug/l	1.0U	1.0U	1.0U	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U	1.0U	1.0U	1.0U
Bromoform, ug/l	1.0U	1.0U	1.0U	1.0U
2-Hexanone, ug/l	10U	10U	10U	10U
4-Methyl-2-pentanone (MIBK), ug/l	10U	10U	10U	10U
Tetrachloroethene, ug/l	1.0U	1.0U	0.40J	1.0U
Toluene, ug/l	1.0U	1.0U	1.0U	1.0U
Chlorobenzene, ug/l	1.0U	1.0U	1.0U	1.0U
Ethylbenzene, ug/l	1.0U	1.0U	1.0U	1.0U
Styrene, ug/l	1.0U	1.0U	1.0U	1.0U
Xylenes, Total, ug/l	2.0U	2.0U	2.0U	2.0U
Surrogate - Toluene-d8	104 %	104 %	104 %	104 %
Surrogate - 4-Bromofluorobenzene	108 %	108 %	106 %	106 %
Surrogate - Dibromofluoromethane	112 %	110 %	114 %	116 %
1,2-Dichloroethene (total), ug/l	1.0U	1.0U	1.0U	1.0U
Dilution Factor	1	1	1	1
Analysis Date	05.02.00	05.02.00	05.02.00	05.02.00
Batch ID	2A0501	2A0501	2A0501	1A0502

Savannah Laboratories
a division of Severn Trent Laboratories, Inc.
5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165 • www.stlsavlab.com

LOG NO: S0-02591
Received: 21 APR 00
Reported: 16 MAY 00

Mr. Roy Hart
Solutia Inc. Indian Orchard Plant
730 Worcester Street
Indian Orchard, MA 01151

Requisition: 10258.018
Contract No.: S7219
CC: Caron Koll (BBL)
Project: SOLUTIA-INDIAN ORCHARD PLANT/FGHA
Sampled By: Client
Code: 154000517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
02591-6	MW-60S	04-20-00/09:15	SIO09
02591-7	MW-84S	04-20-00/11:30	SIO09
02591-8	MW-59S	04-20-00/14:00	SIO09
02591-9	Trip Blank-2	04-20-00	SIO09

PARAMETER	02591-6	02591-7	02591-8	02591-9

Methods: EPA SW-846, Update III and EPA 40 CFR Part 136.

U = Analyzed for but not detected.

D = Result is from a secondary dilution.

E = This flag indicates the reported value is estimated because of the presence of interference.

J = Estimated amount, between the reporting limit and the method detection limit.

B (Organic) = This flag is used when the analyte is found in the associated method blank as well as in the sample.

Angie Stewart, Project Manager

Final Page Of Report

Serial Number 016065

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

⊗ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
○ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
○ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
○ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

2 packages

PROJECT REFERENCE: Solutia FGHA	PROJECT NO.: 10258.018	PROJECT LOCATION (STATE): MA	PAGE 1 OF
STL (LAB) PROJECT MANAGER: A Stewart	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ⊗ DATE DUE
CLIENT (SITE) PM: Caron Koll	CLIENT PHONE: 315-446-9120	CLIENT FAX: 315-449-2853	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE
CLIENT NAME: BBL	CLIENT EMAIL:		
CLIENT ADDRESS: 6723 Towpath Rd., Syracuse, NY 13214			
COMPANY CONTRACTING THIS WORK (if applicable): Solutia, 730 Worcester St. Springfield, MA 01151			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	Sulfide	Fe/Mn Total	Fe/Mn Dissolved	TOC	Dissolved Gases	VOCs	Ammonia, Phosphorus, Nitrate	Alk, Cl, NO3, NO2, SO4		Temp Blank	REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
4/20/00	815	MW-60S		X									3					Level 4 data package
	915	MW-95S		X				1	1	1	1	3	3	1	1			and EDD to Caron
	1130	MW-84S		X									3					Koll (BBL) and copy
	1400	MW-59S		X									3					of results only to
	1500	MW-93A		X				1	1	1	1	3	3	1	1			Roy Hart (Solutia).
	1520	MW-94S		X				1	1	1	1	3	3	1	1			Metals need to be
	—	DUP-2		X				1	1	1	1	3	3	1	1			lab filtered
	1645	MW-83S		X				1	1	1	1	3	3	1	1			
		Trip Blank-2		X									X					
		Temperature Blank		X													X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
J Swafford	4/21/00		[signature]	4/20/00	1800			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
J Swafford	4/21/00	9:45	YES / NO		SO 02591	

ORIGINAL

USA Airbill Number

From This portion can be removed for Recipient's records.

Date 4/20/00 FedEx Tracking Number 812831012283

Sender's Name Jennifer Sandorf Phone 315 446-2570

Company BLASLAND BOUCK & LEE INC

Address 6723 TOWPATH RD

Dept./Floor/Suite/Room

City SYRACUSE State NY ZIP 13214

2 Your Internal Billing Reference 10258.018-1721

612 354-7278

RECIPIENT: PEEL HERE

FedEx 2 Second bus.

4b Express

FedEx 1Da Next business

* Call for Confirmation

5 Packag

FedEx

6 Spe

Sr

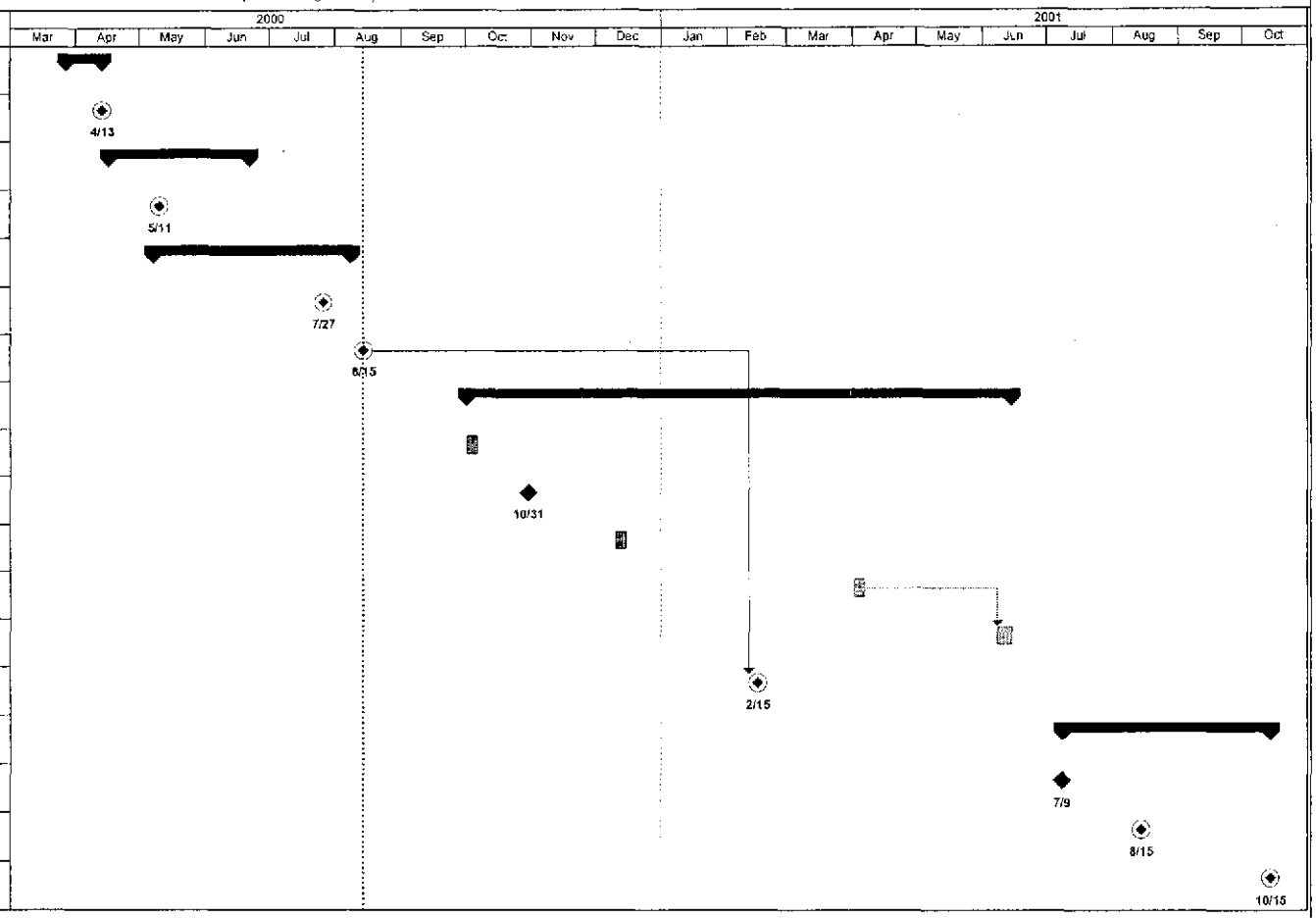
Appendix M

Revised RAM Schedule

Former Gas Holder Area
RAM Schedule
(Revised August 2000)

DRAFT

ID	Task Name
1	RAM Plan Development
6	**MADEP Submittal - RAM Plan**
7	RAM Implementation - Phase 1
24	**MADEP Notification - Delay In Compliance**
25	RAM 120-Day Status Report
35	**MADEP Notification - Delay In Compliance**
36	***MADEP Submittal - 120-Day Status Report***
37	RAM Implementation - Phase 2
38	Task 1 - Additional Confirmation Soil Sampling
39	**Decision Date - Additional RAM Injection or Additional Soil Sampling**
40	*Task 1 - Additional Confirmation Soil Sampling (Contingency)*
41	*Task 2 - Additional RAM Injection (Contingency)*
42	*Task 3 - Confirmation Soil Sampling (Contingency)*
43	**MADEP Submittal - RAM Status or Completion Report**
44	Possible RAM Outcome
45	***Decision Date - RAM Completion Report or Further Action***
46	**MADEP Submittal - RAM Status Report**
47	***MADEP Submittal - RAM Completion Report (Anticipated Submittal Date)***



Assumes MADEP approval of Phase III delay to July 7, 2001.
Assumes 14-day turn-around time for analytical.

Task | Decision Point | Duration | MADEP Submittal

FGHAr.mpp
Prepared by: Karen A. Goldenberg

Mon 8/14/00

Appendix N

BWSC Form 106

Massachusetts Department of Environmental Protection **BWSC-106**
Bureau of Waste Site Cleanup

RELEASE & UTILITY-RELATED ABATEMENT MEASURE (RAM & URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number: 1 - 11901

A. SITE LOCATION:

Site Name: (optional) Solutia, Inc.

Street: 730 Worcester Street Location Aid:

City/Town: Springfield ZIP Code: 01151-1089

☑ Check here if a Tier Classification Submittal has been provided to DEP for this Release Tracking Number.

Related Release Tracking Numbers That This RAM or URAM Addresses:

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ Submit a **RAM Plan** (complete Sections A, B, C, D, E, F, J, K, L and M).

☑ Check here if this RAM Plan is an update or modification of a previously approved written RAM Plan. Date Submitted: 04/13/00

☑ Submit a **RAM Status Report** (complete Sections A, B, C, E, J, K, L and M).

☐ Submit a **RAM Completion Statement** (complete Sections A, B, C, D, E, G, J, K, L and M).

☐ Confirm or Provide **URAM Notification** (complete Sections A, B, H, K, L and M).

☐ Submit a **URAM Status Report** (complete Sections A, B, C, E, J, K, L and M).

☐ Submit a **URAM Completion Statement** (complete Sections A, B, C, D, E, I, J, K, L and M).

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

C. SITE CONDITIONS:

☐ Check here if the source of the Release or Threat of Release is known.

If yes, check all sources that apply: ☐ UST ☐ Pipe/Hose/Line ☐ AST ☐ Drums ☐ Transformer ☐ Boat ☐ Tanker Truck ☐ Vehicle ☑ Other Specify: Pre-1975 Former Above Ground Process Tank

Identify Media and Receptors Affected: (check all that apply) ☐ Air ☑ Groundwater ☐ Surface Water ☐ Sediments ☑ Soil ☐ Wetlands ☐ Storm Drain ☐ Paved Surface ☐ Private Well ☐ Public Water Supply ☐ Zone 2 ☐ Residence ☐ School ☐ Unknown ☐ Other Specify:

Identify Release and/or Threat of Release Conditions at Site: (check all that apply)

☐ 2 and 72 Hour Reporting Condition(s) ☑ 120 Day Reporting Condition(s) ☐ Other Condition(s)

Describe: Measurement in soil above MCP Reportable Concentration; no NAPL in subsurface; not an imminent hazard

RAMs may be conducted concurrently with an IRA only with written DEP approval
URAMs may not be conducted if any 2 or 72 Hour conditions exist at the site.

Identify Oils and Hazardous Materials Released: (check all that apply) ☐ Oils ☐ Chlorinated Solvents ☐ Heavy Metals ☑ Others Specify: Vinyl chloride, off spec polyvinylchloride (PVC)

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

☐ Assessment and/or Monitoring Only

☐ Excavation of Contaminated Soils

☐ Re-use, Recycling or Treatment

○ On Site ○ Off Site Est. Vol.: _____ cubic yards

Describe:

☐ Store ○ On Site ○ Off Site Est. Vol.: _____ cubic yards

☐ Deployment of Absorbant or Containment Materials

☐ Temporary Covers or Caps

☐ Bioremediation

☐ Soil Vapor Extraction

☐ Structure Venting System

☐ Product or NAPL Recovery

SECTION D IS CONTINUED ON THE NEXT PAGE.

Massachusetts Department of Environmental Protection **BWSC-106**
Bureau of Waste Site Cleanup

RELEASE & UTILITY-RELATED ABATEMENT MEASURE (RAM & URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number: 1 - 11901

D. DESCRIPTION OF RESPONSE ACTIONS (*continued*):

☐ Landfill ◯ Cover ◯ Disposal Est. Vol.:_____ cubic yards

☐ Removal of Drums, Tanks or Containers

Describe _____

☐ Removal of Other Contaminated Media

Specify Type and Volume: _____

☐ Groundwater Treatment Systems

☐ Air Sparging

☐ Temporary Water Supplies

☐ Temporary Evacuation or Relocation of Residents

☐ Fencing and Sign Posting

☐ Other Response Actions Describe _____

See 310 CMR 40.0442 for limitations on the scope and type of RAMs.
See 310 CMR 40.0464 for performance standards for URAMs.

☐ Check here if this RAM or URAM involves the use of Innovative Technologies. DEP is interested in using this information to aid in creating an Innovative Technologies Clearinghouse.

Describe Technologies: _____

E. TRANSPORT OF REMEDIATION WASTE:

(*if Remediation Waste has been sent to an off-site facility, answer the following questions*)

Name of Facility: _____

Town and State: _____

Quantity of Remediation Waste Transported to Date: No remediation wastes

F. RAM PLAN:

☐ Check here if this RAM Plan received previous oral approval from DEP as a continuation of a Limited Removal Action (LRA).

Date of Oral Approval: _____

☐ If a RAM Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment. See 310 CMR 40.0444(2) to learn when a fee is not required.

☐ Check here if the RAM Plan is proposed for a Transition Site. If this is the case, you may need to attach an LSP Evaluation Opinion prior to undertaking the RAM, if not previously provided. See 310 CMR 40.0600 for further information about Transition Sites.

G. RAM COMPLETION STATEMENT:

☐ If a RAM Compliance Fee is required in connection with submission of the RAM Completion Statement, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment. You owe this fee when submitting a RAM Completion Statement if you received oral approval of a RAM that continued an LRA, and have NOT previously submitted a RAM Plan and accompanying fee.

If any Remediation Waste will be stored, treated, managed, recycled or reused at the site following submission of the RAM Completion *Statement, you must submit a Phase IV Remedy Implementation Plan, along with the appropriate transmittal form, as an attachment to the* RAM Completion Statement.

H. URAM NOTIFICATION:

Identify Location Type: (check all that apply) ☐ Public Right of Way ☐ Utility Easement ☐ Private Property

Identify Utility Type: (check all that apply) ☐ Sanitary/Combined Sewerage ☐ Water ☐ Drainage ☐ Natural Gas

☐ Telephone ☐ Steam Lines ☐ Telecommunications ☐ Electric ☐ Other Specify _____

☐ Check here if you provided DEP with previous oral notification of this URAM. Date of Oral Notice: _____

☐ Check here if the property owner was NOT contacted prior to initiation of the URAM. If this is the case, you must attach an explanation of why the owner was not contacted, including the date and time when contact ultimately occurred.

☐ Check here if this URAM will occur in connection with the construction of new public utilities. If this is the case, document the nature and extent of encountered contamination, the scope and expense of necessary mitigation and the benefits amd limitations of project alternatives.

With the exception stated below, the person undertaking the URAM must provide the name and license number of an LSP engaged or employed in connection with the URAM:

LSP Name: _____ LSP License Number: _____

LSP information is not required if the URAM is limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil.

Massachusetts Department of Environmental Protection **BWSC-106**
Bureau of Waste Site Cleanup

RELEASE & UTILITY-RELATED ABATEMENT MEASURE (RAM & URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number 1 - 11901

I. URAM COMPLETION STATEMENT:

☐ Check here if this URAM was limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated by either a Hazardous Material or a mixture of a Hazardous Material and Oil.

If any Remediation Waste will be stored, treated, managed, recycled or reused at the site following submission of the URAM Completion Statement, you must submit either a Release Abatement Measure (RAM) Plan or a Phase IV Remedy Implementation Plan, along with the appropriate transmittal form, as an attachment to the URAM Completion Statement.

J. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> *if Section B of this form indicates that a **Release Abatement Measure Plan** is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a **Release Abatement Measure Status Report** or a **Utility-Related Abatement Measure Status Report** is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a **Release Abatement Measure Completion Statement** or a **Utility-Related Abatement Measure Completion Statement** is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

☐ Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Name: Caron S. Koll LSP #: 6889 Stamp:

Telephone: 315-446-2570 Ext.: 148

FAX: (optional) 315-449-2353

Signature:

Date: 08/10/00

An LSP Opinion is not required for a Utility-Related Abatement Measure Notification.

An LSP Opinion is not required for a URAM Completion Statement if the URAM is limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by Hazardous Material or a mixture of Hazardous Material and Oil.

K. PERSON UNDERTAKING RAM OR URAM:

Name of Organization: Solutia, Inc.

Name of Contact: Roy P. Hart Title:

Street: 730 Worcester Street

City/Town: Springfield State MA ZIP Code: 01151-1089

Telephone: 413-730-2682 Ext.: FAX: (optional) 413-730-3299

☐ Check here if there has been a change in person undertaking the RAM or URAM.

Massachusetts Department of Environmental Protection **BWSC-106**
Bureau of Waste Site Cleanup

RELEASE & UTILITY-RELATED ABATEMENT MEASURE (RAM & URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0444 - 0446 and 310 CMR 40.0462 - 0465 (Subpart D)

Release Tracking Number: 1 - 11901

L. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RAM or URAM: (check one)

☑ RP or PRP Specify: ☑ Owner ○ Operator ○ Generator ○ Transporter Other RP or PRP: _____

☐ Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ Any Other Person Undertaking RAM or URAM Specify Relationship: _____

M. CERTIFICATION OF PERSON UNDERTAKING RAM OR URAM:

I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: _____ Title: Super. Environmental Protection
(signature)

For Solutia, Inc. _____ Date: _____
(print name of person or entity recorded in Section K)

Enter address of person providing certification, if different from address recorded in Section K:
Street: _____

City/Town: _____ State: _____ ZIP Code: _____

Telephone: _____ Ext.: _____ FAX: (optional) _____

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.