

**SITE ASSESSMENT REPORT
DOYON COURT DUMP
NORTH OF DOYON COURT AND NEWBOLT COURT
JACKSONVILLE, DUVAL COUNTY, FLORIDA
SITE ID NO. D032
E&A PROJECT NO. 0294-0043**

Prepared for:

City of Jacksonville
Environmental Resource Management Department
Solid Waste Division
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TABLE OF CONTENTS

1.0 INTRODUCTION1
2.0 SITE DESCRIPTION1
3.0 PREVIOUS INVESTIGATIONS.....2
4.0 GROUNDWATER ASSESSMENT3
 4.1 Monitoring Well Installation and Construction.....3
 4.2 Groundwater Sampling.....3
 4.3 Groundwater Analytical Summary.....4
5.0 GROUNDWATER FLOW DIRECTION4
6.0 CONCLUSIONS.....4
7.0 RECOMMENDATIONS AND DISCUSSION5
8.0 SIGNATURES OF PROFESSIONALS.....6

FIGURES

Figure 1 Site Vicinity/Topographic Map
Figure 2 Site Plan
Figure 3 Groundwater Benzene Concentration Map
Figure 4 Groundwater Elevation Map (March 2, 2006)
Figure 5 Groundwater Elevation Map (February 20, 2007)

TABLES

Table 1 Summary of Soil Screening Results
Table 2 Summary of Soil Analytical Data
Table 3 Well Construction Data
Table 4 Summary of Groundwater Analytical Data
Table 5 Summary of Groundwater Analytical Data for Petroleum Parameters
Table 6 Groundwater Elevation Data

APPENDICES

Appendix A FDEP and ERMD Correspondence
Appendix B Well Completion Diagrams
Appendix C Groundwater Sampling Logs and Calibration Logs
Appendix D Laboratory Analytical Reports

SITE ASSESSMENT REPORT

Doyon Court Dump
North of Doyon Court and Newbolt Court
Jacksonville, Duval County Florida
Site ID No. D032
E&A Project No. 0294-0043

1.0 INTRODUCTION

Ellis & Associates, Inc., (E&A) has completed a Site Assessment Report (SAR) for the Doyon Court Dump Site located north of Doyon Court and Newbolt Court, in Jacksonville, Duval County, Florida. A Preliminary Contamination Assessment Report (PCAR), dated September 2005, was prepared by the City of Jacksonville Environmental Resource Management Department's (ERMD's) Solid Waste Division which included a limited soil assessment and no laboratory analysis. According to the Florida Department of Environmental Protection's (FDEP's) review letter, dated December 9, 2005, additional sampling and laboratory analysis were requested to complete the investigation. ERMD contracted E&A to conduct additional assessment and prepare a PCAR Addendum, dated April 10, 2006. The April 2006 PCAR Addendum indicated there were benzene concentrations detected in excess of State cleanup target levels in two groundwater monitoring well samples from the site. E&A resampled these two wells to verify the groundwater exceedences and reported this data in the PCAR Addendum #2 dated September 7, 2006. On December 14, 2006, FDEP issued a review letter of the PCAR Addendum and PCAR Addendum #2. In this letter, the FDEP requested that a SAR be completed to address the detected benzene concentrations. ERMD issued a response letter to FDEP, dated January 5, 2007, indicating the initiation of site assessment activities. This SAR has been prepared to document the delineation of the benzene plume on the site. A copy of these correspondences are provided in *Appendix A*.

2.0 SITE DESCRIPTION

The site is located at the northern terminus of Doyon Court, in Jacksonville, Duval County, Florida. The site is located in Section 34, Township 2 South, and Range 25 East of the Marietta, Florida Quadrangle (*Figure 1*). The site consists of two undeveloped parcels totaling approximately 10.6 acres. The northern and western portions of the site are wooded. The central and southeastern portions of the site are vegetated by high grass and brush. A ditch is present on the northeast portion of the site and flows to the northwest. Exposed debris, such as furniture, building materials, and general refuse were observed in the wooded areas of the northern portion of the site. A Site Plan has been provided as *Figure 2*.

The site is bound on the north (from west to east) by a wooded parcel, an automobile collision repair facility, and a contractor yard; to the east by residences along Helen Drive and Finwood Avenue; to the south by residences along Doyon Court and Newbolt Court; and to the west by residences and undeveloped property.

A review of aerial photographs from 1943 to 2004 indicated that the property was vacant prior to 1960. Evidence of subsurface dumping activity (trench and fill landfill) was apparent between 1960 and 1977. The dumping activity appeared to be limited within the property boundaries of the site. Since 1988, the property appeared undeveloped.

3.0 PREVIOUS INVESTIGATIONS

A PCAR, dated September 2005, was prepared by the ERMD's Solid Waste Division. This investigation included an aerial photograph review, a limited soil assessment, and a potable well survey. This report confirmed the presence of previous dumping activities and recommended additional subsurface investigations.

A PCAR Addendum, dated April 10, 2006, was prepared by E&A. This investigation included soil and groundwater sampling and analysis. Seven soil borings were installed throughout the site and soil samples were screened using an Organic Vapor Analyzer (OVA). Soil borings were installed in the same locations as the monitoring wells shown in *Figure 2*. SB-1 was installed in the same location as MW-1, SB-2 was installed in the same location as MW-2, and so on. Seven soil samples were collected from each of the seven borings and analyzed by a NELAC-certified laboratory. Soil samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260, Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270, Total Recoverable Petroleum Hydrocarbons (TRPH) by the FL-PRO Method, organochlorine pesticides by EPA Method 8081, polychlorinated biphenyls (PCBs) by EPA Method 8082, organophosphorus pesticides by EPA Method 8141, chlorinated herbicides by EPA Method 8151, and the 13 Priority Pollutant Metals (PPMs) by the appropriate EPA methodologies. Based on the laboratory analysis, none of the parameters analyzed were detected in the soil samples at concentrations in excess of Soil Cleanup Target Levels (SCTLs) as defined in Chapter 62-777, Florida Administrative Code (F.A.C.). A summary of the soil screening results are provided as *Table 1*. A summary of the soil analytical data from the April 2006 PCAR Addendum is provided as *Table 2*.

During the PCAR Addendum, seven monitoring wells were installed at the site to collect groundwater samples. The location of the seven monitoring wells, designated MW-1 through MW-7 and replacement well MW-3A, are shown on *Figure 2*. These wells were installed using direct push technology. The monitoring wells were constructed of 1.25-inch diameter schedule 40 PVC equipped with five feet sections of 0.01 inch factory slotting and sufficient riser to reach the surface. The monitoring wells contained a sand pack of 20/30 silica sand to the surface. Locking caps and aboveground protective steel casings were placed on each well. These wells were installed to a depth of approximately 7 feet below ground surface due to a cemented, silty, sand layer (hardpan) encountered throughout the site. MW-3A was installed by hand auger near MW-3 due to lack of groundwater in MW-3. Monitoring well construction details are summarized in *Table 3*. The completion diagrams for these wells are provided in *Appendix B*.

Seven groundwater samples were collected from each well and analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, TRPH by the FL-PRO Method, organochlorine pesticides by EPA Method 8081, PCBs by EPA Method 8082, organophosphorus pesticides by EPA Method 8141, chlorinated herbicides by EPA Method 8151, and the 13 PPMs by the appropriate EPA methodologies. Based on the laboratory analysis, groundwater concentrations from two wells, MW-1 and MW-3A, had concentrations of benzene in excess of the Groundwater Cleanup Target Level GCTLs of 1.0 milligrams per liter ($\mu\text{g/L}$) as defined in Chapter 62-777, F.A.C. Benzene was detected in MW-1, located in the center of the dump, at 3.3 $\mu\text{g/L}$. Benzene was detected in MW-3A, located in the northeastern portion of the dump, at 8.6 $\mu\text{g/L}$. None of the other analyzed parameters were detected in these or any other groundwater samples in excess of their respective GCTLs. A summary of the groundwater analytical data from the April 2006 PCAR Addendum is provided as *Table 4*.

A PCAR Addendum, dated September 7, 2006, was prepared by E&A. This investigation included groundwater sampling and analysis of several previously installed wells to verify the benzene exceedences. Groundwater samples from MW-1, MW-3A, and MW-7 were analyzed for Volatile Organic Aromatics (VOAs) by EPA Method 8260. The results of this sampling event indicated benzene was detected in MW-1 at 2.8 µg/L and in MW-3A at 11 µg/L. A summary of the groundwater analytical data for the VOAs is provided as *Table 5*.

4.0 GROUNDWATER ASSESSMENT

The groundwater at the site was previously assessed through the installation and sampling of seven shallow monitoring wells. The site is underlain by a layer of hardpan at an approximate depth of 7 feet bls which served as the bottom depth of the shallow wells. Two of the seven wells previously sampled indicated the presence of impacts above FDEP groundwater cleanup target levels (GCTLs). The only contaminant detected above its GCTLs was benzene in monitoring wells MW-1 and MW-3A.

4.1 Monitoring Well Installation and Construction

On February 20 and 21, 2007, E&A personnel installed four additional monitoring wells at the site to further delineate the benzene in the groundwater. The monitoring wells were installed by utilizing a hand-driven auger equipped with a stainless steel bucket. Monitoring well locations were selected to attempt to delineate the benzene plume on the site. MW-8 was placed in the west central portion of the site, approximately 100 feet west of MW-1. MW-9 was installed in the north-central portion of the site. MW-10 was placed on the northeastern portion of the site, approximately 30 feet north of MW-3A. MW-11 was placed on the northeastern portion of the site approximately 50 feet east of MW-3A. Due to groundwater sampling results, on March 13, 2007, E&A installed an additional well, MW-12, on the western portion of the site. The monitoring wells, including previously installed monitoring wells, are shown in *Figure 2*.

The five new monitoring wells, MW-8 through MW-12, were completed to depths approximately 9 feet to 10 feet below land surface (bls). The monitoring wells were constructed of 2-inch diameter schedule 40 PVC equipped with five feet sections of 0.01 inch factory slotting and sufficient riser to reach the surface. The monitoring wells contained a sand pack of 20/30 silica sand to the surface. Locking caps were placed on each well. Monitoring well construction details are summarized in *Table 3*. Monitoring well construction diagrams for the five new wells are provided in *Appendix A*.

4.2 Groundwater Sampling

On February 20 and 21, 2007, E&A personnel sampled MW-1, MW-3A, MW-8, MW-9, MW-10, and MW-11. On March 13, 2007, E&A personnel sampled MW-12. Prior to the collection of the groundwater samples, each monitoring well was purged according to FDEP guidelines with a low flow peristaltic pump and dedicated polyethylene tubing. Groundwater samples were collected for volatile organics compounds by gravity feeding through the peristaltic pump tubing. No free phased product was observed in samples from the monitoring wells. E&A submitted the groundwater samples to a NELAC-certified laboratory for analysis for VOAs by EPA Method 8260. The groundwater sampling logs and calibration logs are provided in *Appendix B*.

4.3 Groundwater Analytical Summary

The laboratory analysis of the groundwater sample from MW-1, located in the central portion of the site, indicated benzene was detected at a concentration of 2.4 µg/L. The laboratory analysis of the groundwater sample from MW-3A, located on the northeast portion of the site, indicated benzene was detected at a concentration of 3.1 µg/L. The laboratory analysis of the groundwater sample from MW-8, located on the west-central portion of the site, indicated benzene was detected at a concentration of 4.6 µg/L. The laboratory analysis of the groundwater sample from MW-12, located on the western portion of the site, indicated benzene was detected at a concentration of 1.36 µg/L. These concentrations exceed the benzene GCTL of 1 µg/L. These concentrations were below the Natural Attenuation Default Concentration (NADC) of 100 µg/L for benzene as defined in Chapter 62-777, F.A.C.

Benzene was not detected above the GCTLs in MW-9, MW-10, MW-11. None of the other analyzed constituents were detected above their respective GCTLs in any of the groundwater samples analyzed.

A summary of the groundwater analytical results is provided in *Table 5*. A Groundwater Benzene Concentration Map is provided as *Figure 3*. The laboratory analytical reports are provided in *Appendix C*.

5.0 GROUNDWATER FLOW DIRECTION

Groundwater flow direction for the site was determined utilizing five of the previously installed monitoring wells installed for the groundwater assessment. Top of casing elevations were previously field surveyed for MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6. Due to the presence of dense vegetation, the other monitoring wells, were not utilized during this interpolation.

Depth to water readings were collected utilizing a water level indicator accurate to 0.01 feet. Depth to water readings were collected prior to sampling on February 20, 2007. Based on the top of casing elevations and the depth to water readings, groundwater flow direction for the site is to the northwest. This interpolation is consistent with the previous investigations.

Groundwater elevation data for the site is provided in *Table 6*. A Groundwater Elevation Map from March 2, 2006 is provided as *Figure 4*. A Groundwater Elevation Map from February 20, 2007 is provided as *Figure 5*.

6.0 CONCLUSIONS

E&A has completed a Site Assessment Report of the former Doyon Court Dump located northern terminus of Doyon Court, in Jacksonville, Florida. The results of the assessment indicated the following:

- Groundwater analytical results confirmed the presence of benzene at concentrations above its GCTL of 1 µg/L in four of the monitoring wells. Benzene was detected in MW-1 (central portion of site), MW-3A (northeast portion of site), MW-8 (west-central portion of site), and MW-12 (west portion of site) at concentrations of 2.4 µg/L, 3.1 µg/L, 4.6 µg/L, and 1.36 µg/L, respectively. No other VOAs were detected above their GCTLs. None of these concentrations exceeded the NADC of 100 µg/L for benzene.
- Based on groundwater elevation data and the surveyed top of casing data, the groundwater flow direction on the site is interpolated to be to the northwest.

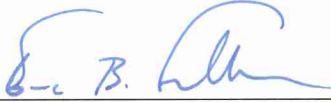
7.0 RECOMMENDATIONS AND DISCUSSION

As stated previously in E&A's April 2006 PCAR Addendum, contamination was not detected above SCTLs in the soil samples analyzed above SCTLs. According to the FDEP's *Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida*, dated May 3, 2001, soil cover should be maintained over the stabilized waste. E&A recommends that exposed debris be removed from the site or that a suitable cover be placed on the debris. Fencing the property would also deter future trespass dumping at the site. In E&A's opinion, no other active remedial actions regarding the landfill debris are warranted at this time.


Groundwater samples from the central (MW-1 and MW-8), the northeast (MW-3A), and the western (MW-12) portions of the site had benzene concentrations in excess of its GCTL. The concentrations of benzene detected were just above the GCTL and below NADC and therefore active remediation does not appear warranted at this time. Based on groundwater analytical results from previous investigation and this site assessment, the benzene plume appears to have been delineated on site. In E&A's opinion, Natural Attenuation Monitoring would be the most appropriate remedial option for the site.

E&A recommends that the quality of water from the supply wells adjoining or near the site be evaluated to ensure the health of residents using water from these wells. E&A understands that the Duval County Health Department has been contacted regarding this sampling. E&A recommends this sampling on an annual or biannual basis.

8.0 SIGNATURES OF PROFESSIONALS

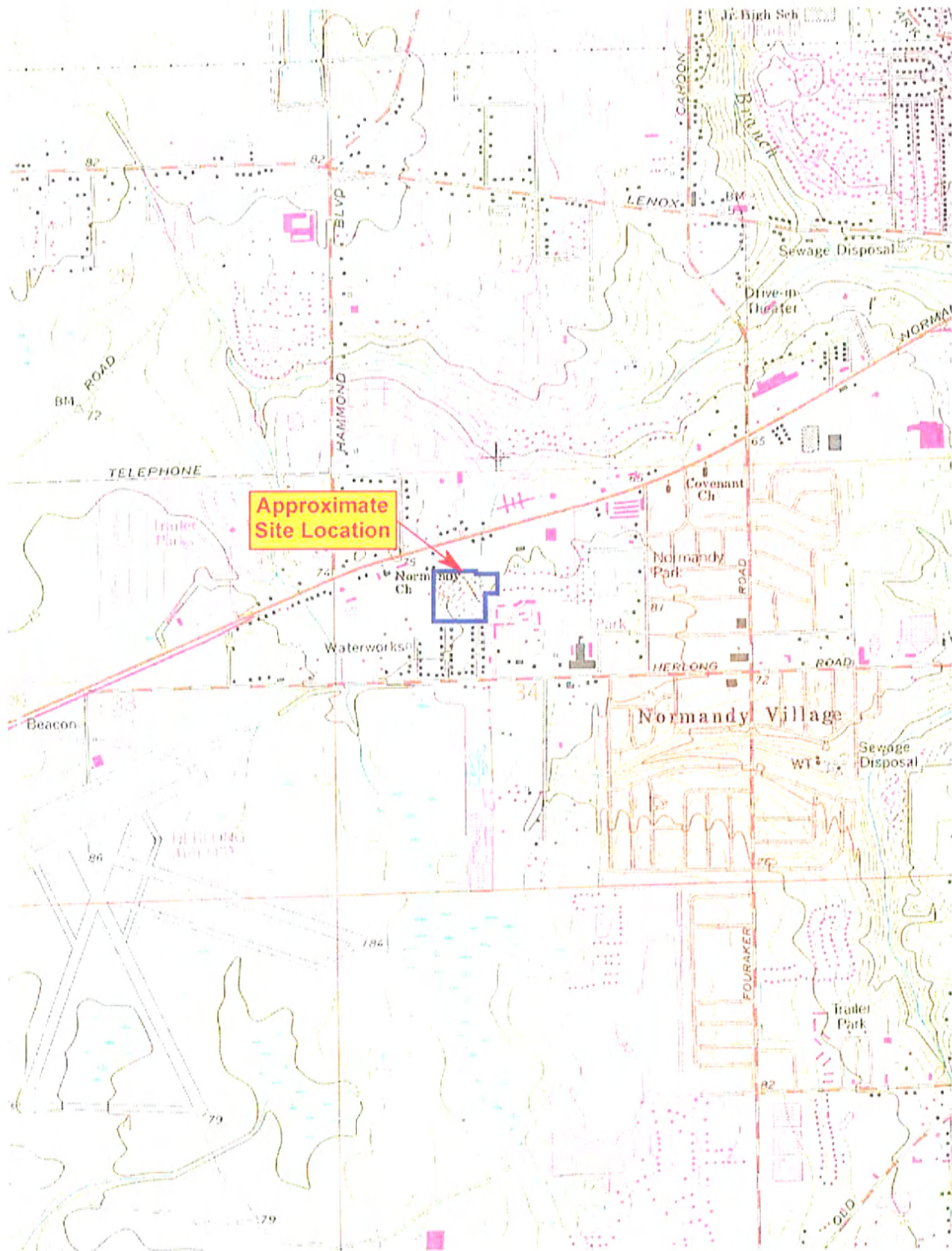


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FIGURES



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Site Vicinity / Topography Map
Doyon Court Dump
 U.S. Geological Survey 7.5 Minute - Topographic Map
 Marietta, Florida Quadrangle
 1964, Photorevised 1992
 Site boundaries depicted are approximate

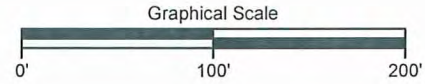
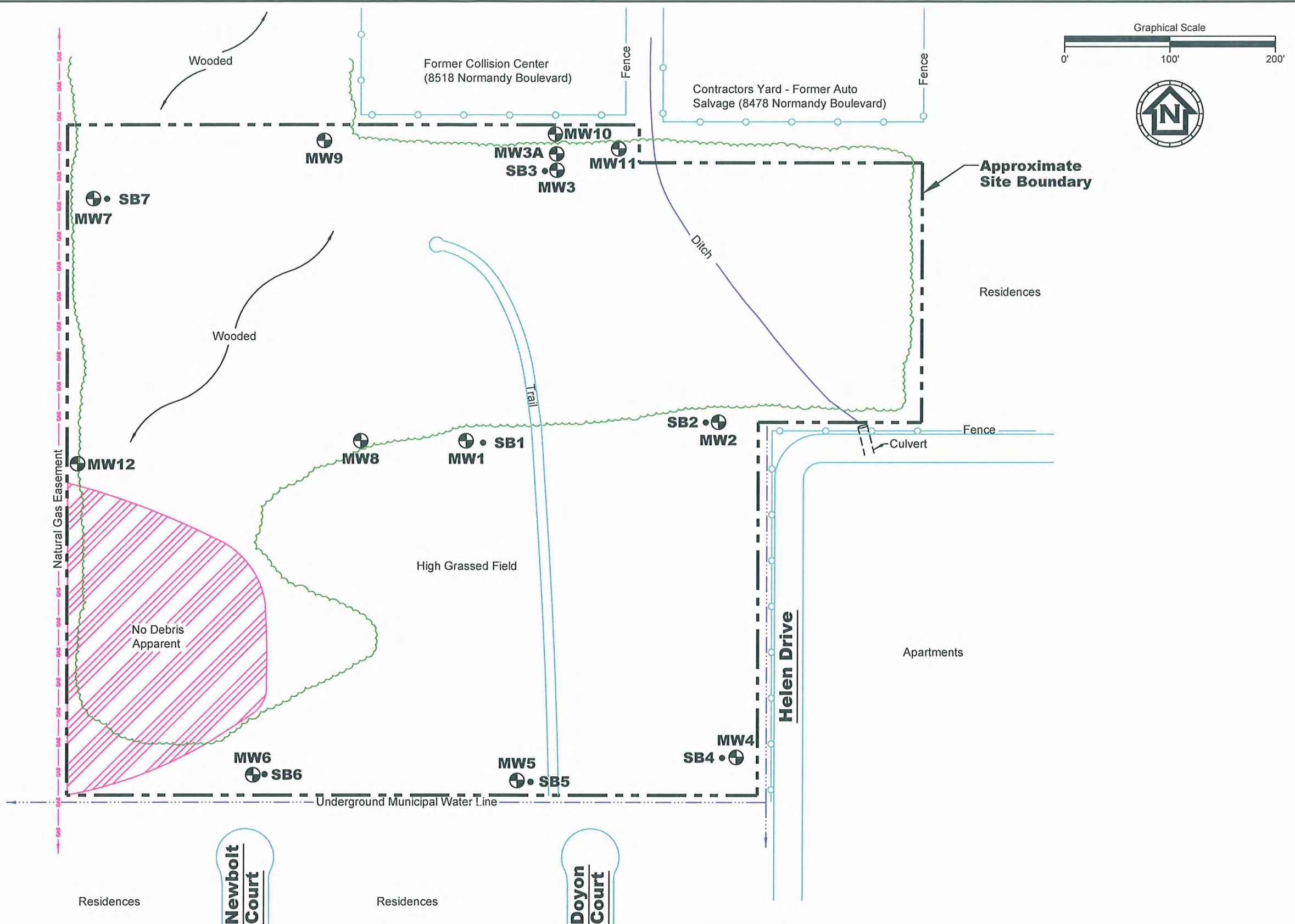


Date: 03/08/07

Project No.: 0294-0043

Figure 1

JSA - 02940043



LEGEND

- ⊕ Monitoring Well
- Soil Boring

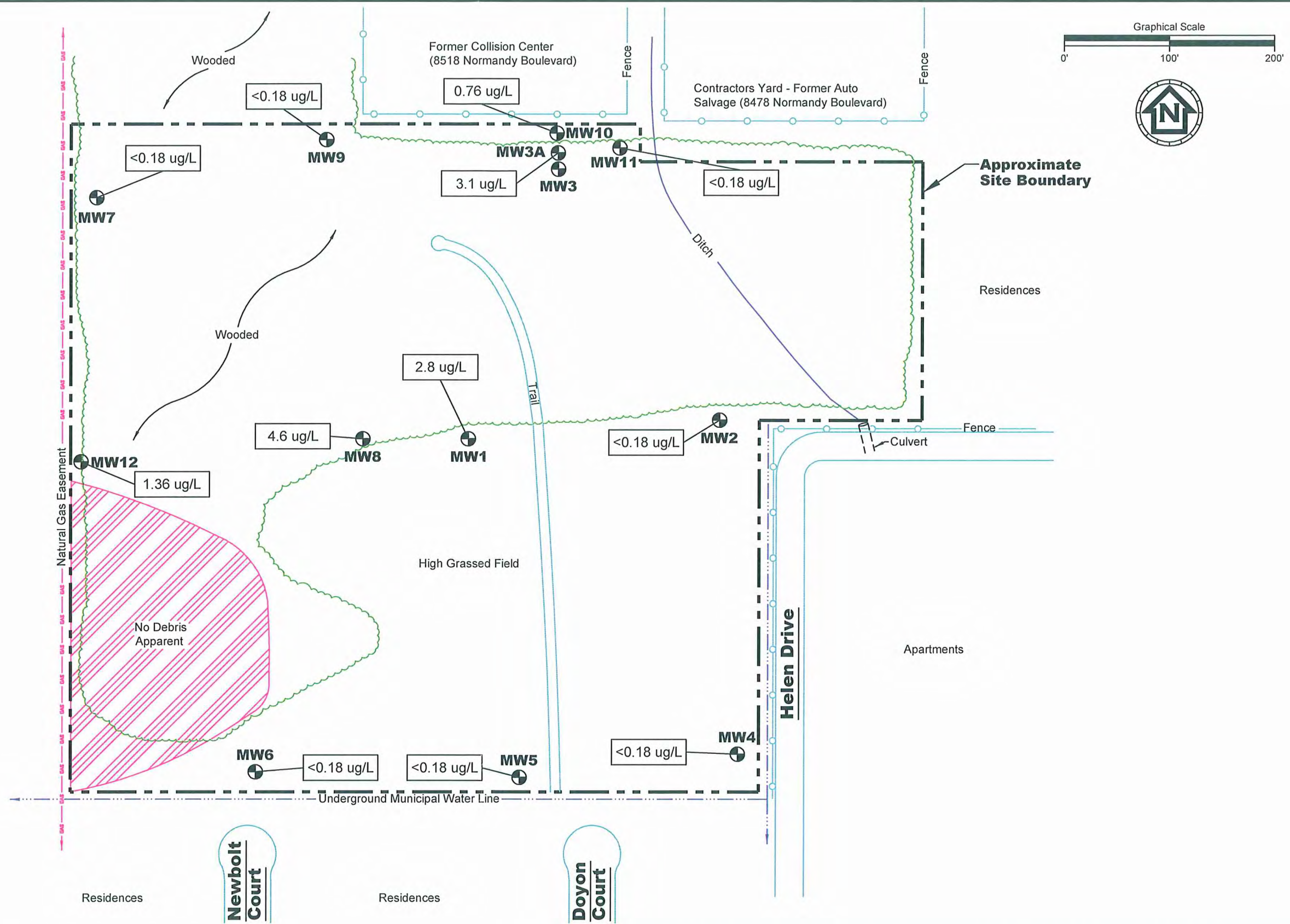


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Site Plan
Doyon Court Dump
 Jacksonville, Florida

Date: 04/04/07 Project No.: 0294-0043 Figure 2

JSA - 02940043



LEGEND

⊕ Monitoring Well

Benzene Concentration Level (ug/L)

NOTE:

- Benzene Groundwater Cleanup Target Level is 1.0 ug/L (Chapter 62-777, F.A.C.)
- MW2,4,5,6 Sampled on 03/20/06
- MW1,7 Sampled on 06/29/06
- MW3A,8,9,10,11 Sampled on 02/21/07
- MW12 Sampled on 03/13/07

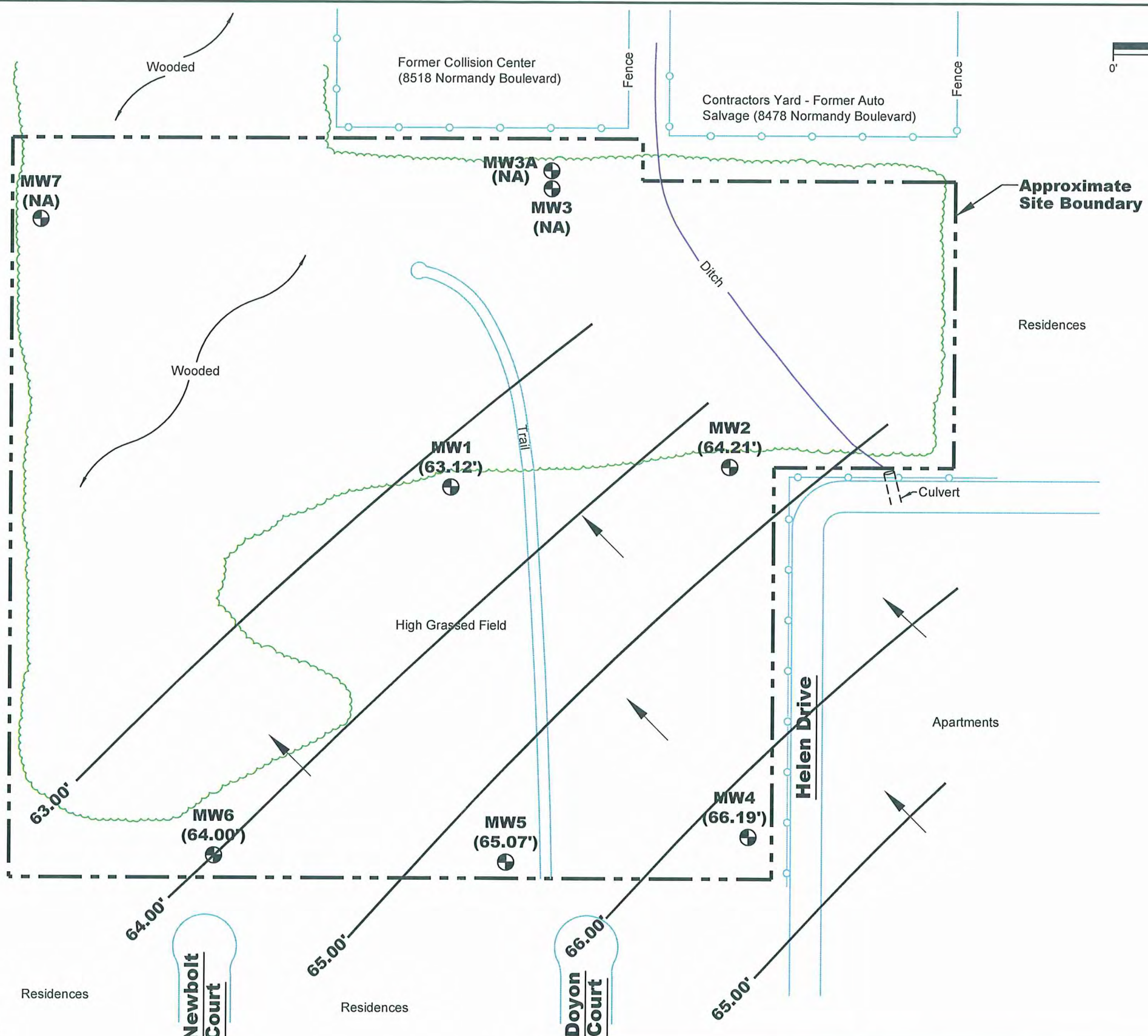
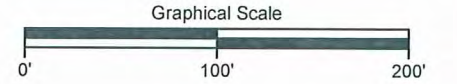
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Groundwater Concentration Map
Doyon Court Dump
 Jacksonville, Florida

Date: 04/04/07

Project No.: 0294-0043

Figure 3



LEGEND

- Monitoring Well
- (64.62')** Groundwater Elevation (FT MSL) - Data Collected 03/02/06
- Groundwater Elevation Contour - Interval = 1.00'
- Groundwater Flow Direction
- (NA)** Monitoring Well Elevation not Surveyed

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Groundwater Elevation Map (03/02/06)
Doyon Court Dump
 Jacksonville, Florida

Date: 04/04/07 Project No.: 0294-0043 Figure 4

JSA - 02940043

TABLES

Table 1
Summary of Soil Screening Results
Doyon Court Dump
Jacksonville, Florida
E&A Project No. 0294-0043

Sample ID Location	Sample Date	Depth to Water (feet bls)	Sample Interval (feet bls)	Unfiltered Reading (ppm)	Filtered Reading (ppm)	Net Reading (ppm)	Odor	Lithology
SB-1 center of dump (MW-1)	3/17/06	4	0-1	0	-	0	none	FINE SAND; dark brown
			1-2	0	-	0	none	FINE SAND; dark brown
			2-3	0	-	0	none	FINE SAND w/DEBRIS; dark brown; plastic debris
			3-4	0	-	0	none	FINE SAND w/DEBRIS; light brown; plastic debris
			4-5	400	240	160	organic	FINE SAND; light brown
			5-6	800	700	100	organic	FINE SAND; light brown
			6-7*	850	400	350	organic	FINE SAND; dark brown hardpan
			7-8	350	450	1	organic	FINE SAND; dark brown hardpan
			8-11	NS	NS	NS	NS	FINE SAND; dark brown hardpan
SB-2 east side of dump (MW-2)	3/17/06	4	0-1	0	-	0	none	FINE SAND w/DEBRIS; medium brown; fabric debris
			1-2	3	0	3	none	FINE SAND; medium brown
			2-3	54	86	1	none	FINE SAND; medium brown
			3-4	80	40	40	none	FINE SAND; light brown
			4-5	40	70	1	organic	FINE SAND; light brown
			5-6	28	36	1	organic	FINE SAND; light brown
			6-7	45	45	0	organic	FINE SAND; dark brown hardpan
			7-8*	330	160	170	organic	FINE SAND; dark brown hardpan
			8-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan
SB-3 northeast of dump (MW-3)	3/17/06	5	0-1	0	-	0	none	FINE SAND; medium brown
			1-2	0	-	0	none	FINE SAND; medium brown
			2-3	0	-	0	none	FINE SAND; dark brown and light grey
			3-4	135	145	1	organic	FINE SAND; dark brown
			4-5	140	110	30	organic	FINE SAND; dark brown
			5-6	540	530	10	organic	FINE SAND; dark brown hardpan
			6-7	175	400	1	organic	FINE SAND; dark brown hardpan
			7-8*	1050	500	550	organic	FINE SAND; dark brown hardpan
			8-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan
SB-4 southeast of dump (MW-4)	3/17/06	4	0-1	0	-	0	none	FINE SAND w/DEBRIS; medium brown; plastic debris
			1-2*	5	0	5	none	FINE SAND; medium brown
			2-3	5	3	2	none	FINE SAND; medium brown and grey
			3-4	5	7	1	none	FINE SAND; medium brown and grey
			4-5	0	-	0	none	FINE SAND; medium brown and grey
			5-6	20	38	1	organic	FINE SAND; light brown
			6-7	50	50	0	organic	FINE SAND; dark brown hardpan
			7-8	36	40	1	organic	FINE SAND; dark brown hardpan
			8-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan

Notes: ppm - parts per million NS - not screened with OVA
 bls - below land surface
 I - inconclusive; filtered reading higher than unfiltered (i.e. high methane)
Bold * - sample submitted for laboratory analysis

Table 1 (continued)
 Summary of Soil Screening Results
 Doyon Court Dump
 Jacksonville, Florida
 E&A Project No. 0294-0043

Sample ID Location	Sample Date	Depth to Water (feet bls)	Sample Interval (feet bls)	Unfiltered Reading (ppm)	Filtered Reading (ppm)	Net Reading (ppm)	Odor	Lithology
SB-5 south of dump (MW-5)	3/17/06	4	0-1	0	-	0	none	FINE SAND; light grey
			1-2*	28	15	13	none	FINE SAND; light grey
			2-3	60	50	10	organic	FINE SAND; medium to dark brown
			3-4	28	25	3	organic	FINE SAND; medium to dark brown
			4-5	20	18	2	organic	FINE SAND; medium to dark brown
			5-6	42	60	1	organic	FINE SAND; light brown
			6-7	70	60	10	organic	FINE SAND; dark brown hardpan
			7-8	56	48	8	organic	FINE SAND; dark brown hardpan
			8-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan
SB-6 southwest of dump (MW-6)	3/17/06	4	0-1	0	-	0	none	FINE SAND w/DEBRIS; medium brown; fabric debris
			1-2*	12	5	7	none	FINE SAND; medium brown
			2-3	5	1	4	none	FINE SAND; medium brown
			3-4	10	10	1	none	FINE SAND; light brown
			4-5	27	27	0	organic	FINE SAND; light brown
			5-6	36	46	1	organic	FINE SAND; light brown
			6-7	60	80	1	organic	FINE SAND; dark brown hardpan
			7-8	22	36	1	organic	FINE SAND; dark brown hardpan
			8-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan
SB-7 northeast of dump (MW-7)	3/20/06	4	0-1	0	-	0	none	FINE SAND; light brown
			1-2	0	-	0	none	FINE SAND; light brown
			2-3*	100	70	30	organic	FINE SAND; medium brown
			3-4	20	19	1	organic	FINE SAND; dark brown
			4-5	6	6	0	organic	FINE SAND; dark brown
			5-6	18	13	5	organic	FINE SAND; dark brown
			6-7	26	40	1	organic	FINE SAND; dark brown hardpan
			7-8	100	70	30	organic	FINE SAND; dark brown hardpan
			8-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan
MW-8 west central portion of dump	2/20/07	6	0-1	0	-	0	none	FINE SAND; medium brown
			1-2	0	-	0	none	FINE SAND; dark grey (2" of void space)
			2-3	0	-	0	none	FINE SAND; dark gray and brown
			3-4	0	-	0	none	FINE SAND; dark brown and tan
			4-5	0	-	0	none	FINE SAND; light brown
			5-6	0	-	0	none	FINE SAND; light brown
			6-7	220	120	1	organic	FINE SAND; light brown
			7-10	NS	NS	NS	NS	FINE SAND; dark brown hardpan

Notes: ppm - parts per million NS - Not screened with OVA
 bls - below land surface
 I - inconclusive; filtered reading higher than unfiltered (i.e. high methane)
Bold * - sample submitted for laboratory analysis

Table 2
Soil Analytical Summary
Doyon Court Dump
Jacksonville, Florida
E&A Project No. 0294-0043

Sample No	SB1@7' 3/17/06 6'-7' 350	SB2@8' 3/17/06 7'-8' 170	SB-3@8' 3/17/06 7'-8' 550	SB4@2' 3/17/06 1'-2' 5	SB5@2' 3/17/06 1'-2' 13	SB6@2' 3/17/06 1'-2' 7	SB7@3' 3/20/06 2'-3' 30	FDEP SCTL Direct Exposure Residential ¹ (mg/kg)	FDEP SCTL Direct Exposure Commercial/ Industrial ¹ (mg/kg)	FDEP SCTL Leachability Based on Groundwater Criteria ¹ (mg/kg)
Sample Location	Center	East	Northeast	Southeast	South	Southwest	Northeast			
Parameter, Method (All units in milligrams per kilogram (mg/kg))										
Chromium, EPA Method 6010B	3.6	5.4	2.7	1.1 (I)	<0.99	<0.99	2.76	210	470	38
Copper, EPA Method 6010B	<0.89	1.8	<0.89	<0.88	<0.89	<0.89	<0.758	150	89,000	*
Lead, EPA Method 6010B	1.2 (I)	3.1	1.3 (I)	0.55 (I)	<0.50	0.54 (I)	1.26	400	1,400	*
Nickel, EPA Method 6010B	<0.46	<0.47	<0.46	0.45 (I)	<0.46	<0.46	0.436 (I)	340	35,000	130
Selenium, EPA Method 6010B	<0.50	0.68 (I)	<0.50	<0.49	<0.50	<0.50	<0.425	440	11,000	5.2
Zinc, EPA Method 6010B	22	54	23	<1.3	<1.4	<1.4	2.07 (I)	26,000	630,000	*
Mercury, EPA Method 7471	0.084 (I)	0.028 (I)	0.024 (I)	0.0088 (I)	0.0095 (I)	0.0092 (I)	0.0021 (I)	3	17	2.1
All Other Priority Pollutant Metals, EPA Method 6010B	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various
Total Recoverable Petroleum Hydrocarbons, FL-PRO Method	4.2 (I)	<4.0	<3.9	5.2 (I)	3.9 (I)	4.1 (I)	7.5 (I)	460	2,700	340
Benzene, EPA Method 8260	0.0012 (I)	<0.00043	0.0016 (I)	<0.00035	<0.00047	<0.00035	<0.00030	1.2	1.7	0.007
Carbon Disulfide, EPA Method 8260	<0.00058	0.0081 (I)	<0.00064	<0.00049	<0.00068	0.0023 (I)	<0.00042	270	1,500	5.6
Chlorobenzene, EPA Method 8260	0.0092 (I)	0.0021 (I)	0.039	<0.00051	<0.00069	<0.00051	<0.00044	120	650	1.3
1,4-Dichlorobenzene, EPA Method 8260	0.0046 (I)	0.0076 (I)	<0.00085	<0.00067	<0.00091	<0.00068	<0.00057	6.4	9.9	2.2
2-Butanone, EPA Method 8260	<0.0030	<0.0031	<0.0032	0.013 (I)	0.011 (I)	<0.0026	<0.0022	16,000	110,000	17
Naphthalene, EPA Method 8260	0.0019 (I)	0.0015 (I)	<0.0015	<0.0012	<0.0016	<0.0012	<0.0010	55	300	1.2
Toluene, EPA Method 8260	0.0036 (I)	0.0032 (I)	0.0013 (I)	0.0021 (I)	0.0050 (I)	0.0019 (I)	<0.00033	7,500	60,000	0.5
1,2,3-Trichlorobenzene, EPA Method 8260	0.011 (I)	<0.0011	<0.0011	<0.00089	<0.0012	<0.00091	<0.00077	650	8,200	4.6
All other Volatile Organic Compounds by EPA Method 8260	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various
All Semi-Volatile Organic Compounds by EPA Method 8270	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various
All Organophosphorous Compounds, EPA Method 8141	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various
All Chlorinated Herbicides, EPA Method 8151	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various
All Polychlorinated Biphenyls by EPA Method 8082	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various
Delta BHC, EPA Method 8081	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0.0025	24	490	0.2
All Other Organochlorine Pesticides by EPA Method 8081	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various	Various	Various

Notes:
¹ Florida Department of Environmental Protection Soil Cleanup Target Levels, Table II, Chapter 62-777, Florida Administrative Code
 *. Leachability values may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event that oily wastes are present.
 (I) Concentration detected between method detection limit and reportable limit

Table 3
Well Construction Data
Doyon Court Dump
Jacksonville, Florida
E&A Project Number 0294-0043

Well No.	Date Installed	Installation Method	Top of Casing Elevation (feet msl)	Length of riser above grade (feet)	Total Well Length (feet)	Well Depth below grade (feet bis)	Screened Interval (feet bis)	Well Diameter (inches)	Well Location	Lithology of Screened Interval
MW-1	3/17/2006	Direct push	72.08	3.82	11.14	7.32	2'-7"	1.25	Center of dump	2'-6" Fine sand; 6'-7" Hardpan; plastic debris from 2'-4"
MW-2	3/17/2006	Direct push	73.14	4.10	10.73	6.63	2'-7"	1.25	East side of dump	2'-6" Fine sand; 6'-7" Hardpan; fabric debris from 0-1'
MW-3	3/17/2006	Direct push	NA	1.40	9.60	8.20	3'-8"	1.25	Northeast of dump	3'-5" Fine sand; 5'-8" Hardpan
MW-3A	3/21/2006	Hand Auger	NA	0.30	10.00	9.70	5'-10"	1.25	Northeast of dump	5'-6" Fine sand; 6'-10" Hardpan
MW-4	3/20/2006	Direct push	74.81	3.78	11.70	7.92	3'-8"	1.25	Southeast of dump	3'-6" Fine sand; 6'-8" Hardpan
MW-5	3/20/2006	Direct push	72.37	3.80	10.75	6.95	2'-7"	1.25	South of dump	2'-6" Fine sand; 6'-7" Hardpan
MW-6	3/20/2006	Direct push	75.21	4.10	10.89	6.79	2'-7"	1.25	Southwest of dump	2'-6" Fine sand; 6'-7" Hardpan
MW-7	3/20/2006	Direct push	NA	4.00	10.31	6.31	2'-7"	1.25	Northwest of dump	2'-6" Fine sand; 6'-7" Hardpan
MW-8	2/20/2007	Hand Auger	NA	0.37	10.30	9.93	5'-10"	2.00	West-central portion of dump	5'-7" Fine sand; 7'-10" Hardpan
MW-9	2/20/2007	Hand Auger	NA	0.63	10.30	9.67	5'-10"	2.00	Northwest center of dump	5'-10" Fine sand
MW-10	2/20/2007	Hand Auger	NA	1.41	10.30	8.89	4'-9"	2.00	Northeast of dump	4'-9" Fine sand
MW-11	2/20/2007	Hand Auger	NA	1.64	10.30	8.66	4'-9"	2.00	Northeast of dump	4'-9" Fine sand
MW-12	3/13/2007	Hand Auger	NA	0.30	10.30	10.00	5'-10"	2.00	West of dump	5'-10" Fine sand

Notes:

- Top of casing elevations are relative to each other.
- bis - below land surface
- msl - mean sea level
- NA - no well top of casing elevation surveyed

Table 4
Groundwater Analytical Summary
Doyon Court Dump
Jacksonville, Florida
E&A Project Number 0294-0043

Well No. Sample Date Parameter, Method Location (All Units in micrograms per liter - µg/L)	MW-1 3/20/2006 Center	MW-2 3/20/2006 East	MW-3A 3/22/2006 Northeast	MW-4 3/21/2006 Southeast	MW-5 3/21/2006 South	MW-6 3/21/2006 Southwest	MW-7 3/21/2006 Northeast	Groundwater Cleanup Target Levels, Chapter 62- 777, F.A.C. (µg/L)
Chromium, EPA Method 6010B	0.89 (I)	<0.83	12 (V)	5.1	43 (V)	4.0 (I)(V)	6.7(I)(V)	100
Copper, EPA Method 6010B	<2.4	<2.4	1.0 (I)	10	1.8 (I)	1.0 (I)	2.1 (I)	1,000
Lead, EPA Method 6010B	<3.0	<3.0	4.6 (I)	<1.6	<1.6	3.9 (I)	<1.6	15
Nickel, EPA Method 6010B	<1.9	2.0 (I)	<1.2	<1.2	22	1.4 (I)	6.6(I)	100
Zinc, EPA Method 6010B	<6.5	7.8 (I)	4.5 (I)	<3.5	5.8 (I)	5.7 (I)	26	5,000
Mercury, EPA Method 245.1	<0.03	<0.03	0.52	<0.03	0.031 (I)	0.12 (I)	<0.03	2
All Other Priority Pollutant Metals by EPA Methods 6010B	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
Total Recoverable Petroleum Hydrocarbons, FL-PRO Method	170 (I)	<150	280 (I)(V)	<150	190 (I)(V)	160 (I)(V)	520 (I)(V)	5,000
Benzene, EPA Method 8260	3.3	<0.180	8.6	<0.180	<0.180	<0.180	<0.180	1
1,2-Dichloroethane, EPA Method 8260	<0.220	<0.220	0.680 (I)	<0.220	<0.220	<0.220	<0.220	3
Chlorobenzene, EPA Method 8260	10	<0.240	10	<0.230	<0.230	<0.230	<0.230	100
1,4-Dichlorobenzene, EPA Method 8260	3.2	<0.240	<0.240	<0.240	<0.240	<0.240	<0.240	75
P-Isopropyltoluene, EPA Method 8260	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	37	NL
All Other Volatile Organic Compounds by EPA Method 8260	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
Naphthalene, EPA Method 8270	0.220 (I)	0.0550 (I)	<0.100	<0.0230	<0.0230	<0.0230	<0.0230	14
1,4-Dichlorobenzene, EPA Method 8270	1.2	<0.260	<0.260	<0.260	<0.260	<0.260	<0.260	75
Benzoic Acid, EPA Method 8270	0.400 (I)	<0.210	<0.210	<0.210	<0.210	<0.210	<0.210	28,000
3&4-Methylphenol, EPA Method 8270	<0.250	0.250 (I)	<0.250	<0.250	<0.250	<0.250	<0.250	35/3.5
Diethylphthalate, EPA Method 8270	<0.290	<0.290	0.370 (I)	<0.290	<0.290	<0.290	<0.290	5,600
Bis(2-ethylhexyl)phthalate, EPA Method 8270	<2.5	<2.5	<2.5	<2.5	<2.5	3.2 (I)	<2.5	NL
Di-N-Butylphthalate, EPA Method 8270	<1.5	<1.5	<1.5	<1.5	<1.5	1.8 (I)	<1.5	NL
All Other Semi-Volatile Organic Compounds by EPA Method 8270	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
All Organophosphorous Compounds by EPA Method 8141	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
All Polychlorinated Biphenyls by EPA Method 8082	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
All Chlorinated Herbicides by EPA Method 8151	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various
All Organochlorine Pesticides by EPA Method 8081	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Various

Notes:

< - Concentration not detected above method detection limit shown

Bolded numbers indicate an exceedance of regulatory criteria

BDL - Below Laboratory Method Detection Limits

NL - Not listed

(I) Concentration detected between method detection limit and reportable limit

(V) Parameter detected in laboratory blank

TABLE 5: SUMMARY OF GROUNDWATER ANALYTICAL DATA OF PETROLEUM PARAMETERS

Analytical Results = ppb or ug/L (V) = analyte detected in laboratory blank

Facility Name: Doyon Court Dump Facility ID#: NA
 Facility Address: Northern Terminus of Doyon Court

BDL = Below Detection Limit
 NS = Not sampled
 (I) = analyte detected, but below reporting limit

Well	Sample Date	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Total BTEX	MTBE	Chloro-benzene	1,4 dichloro-benzene	1,3 dichloro-benzene	Total Lead	TRPH	Naphtha-lene	1-Methyl Napht.	2-Methyl Napht.
GCTLs		1	40	30	20	--	20	100	75	210	15	5000	14	28	28
INADCS		100	400	300	200	--	200	1,000	750	2,100	150	5000	140	280	280
MW-1	3/20/06	3.3	<0.26	<0.26	<0.92	3.3	<0.19	10	3.2	<0.28	<3.0	170(I)	0.22(I)	<0.044	<0.077
	6/29/06	2.8	0.43(I)	<0.26	<0.91	3.23	<0.19	6.2	1.8	<0.28	NS	NS	NS	NS	NS
	2/20/07	2.4	0.45 (I)	<0.26	<0.250	2.85	<0.19	4.8	0.58 (I)	0.52 (I)	NS	NS	NS	NS	NS
MW-2	3/20/06	<0.18	<0.26	<0.26	<0.92	<1.43	<0.19	<0.24	<0.24	<0.28	<3.0	<150	0.55(I)	<0.044	<0.077
MW-3A	3/20/06	8.6	<0.26	<0.26	<0.91	8.6	<0.19	10	<0.24	<0.28	4.6(I)	250(I)	<0.10	<0.044	<0.077
	6/29/06	11	0.32(I)	<0.26	<0.91	11.32	<0.19	15	<0.24	<0.28	NS	NS	NS	NS	NS
	2/21/07	3.1	<0.26	<0.26	<0.250	3.1	<0.19	9.5	<0.24	<0.28	NS	NS	NS	NS	NS
MW-4	3/20/06	<0.18	<0.26	<0.26	<0.91	<1.42	<0.19	<0.23	<0.24	<0.28	<1.6	<150	<0.023	<0.044	<0.077
MW-5	3/20/06	<0.18	<0.26	<0.26	<0.91	<1.42	<0.19	<0.23	<0.24	<0.28	<1.6	190(I)	<0.023	<0.044	<0.077
MW-6	3/20/06	<0.18	<0.26	<0.26	<0.91	<1.42	<0.19	<0.23	<0.24	<0.28	<1.6	160(I)(V)	<0.023	<0.044	<0.077
MW-7	3/20/06	<0.18	<0.26	<0.26	<0.91	<1.42	<0.19	<0.23	<0.24	<0.28	<1.6	520(I)(V)	<0.023	<0.044	<0.077
	6/29/06	<0.18	0.51(I)	<0.26	<0.91	0.51	<0.19	<0.23	<0.24	<0.28	NS	NS	NS	NS	NS
MW-8	2/21/07	4.5	0.57 (I)	<0.26	<0.250	5.17	<0.19	3.7	<0.24	<0.28	NS	NS	NS	NS	NS
MW-9	2/21/07	<0.18	<0.26	<0.26	<0.91	BDL	<0.19	<0.23	<0.24	<0.28	NS	NS	NS	NS	NS
MW-10	2/21/07	0.76 (I)	0.31 (I)	<0.26	<0.91	1.07	<0.19	16	13	<0.28	NS	NS	NS	NS	NS
MW-11	2/21/07	<0.18	<0.26	<0.26	<0.91	BDL	<0.19	<0.23	<0.24	<0.28	NS	NS	NS	NS	NS
MW-12	3/13/07	1.36	0.290 (I)(V)	<0.26	<0.130	1.65	0.830 (I)	NS	NS	NS	NS	NS	NS	NS	NS

Table 6
Groundwater Elevation Data
Doyon Court Dump
Jacksonville, Florida
E&A Project Number 0294-0043

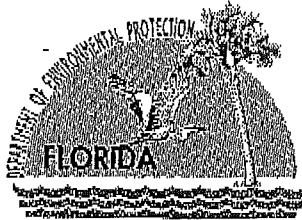
WELL NO.	MW-1		MW-2		MW-3A		MW-4		MW-5		MW-6		MW-7	
	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW
DIAMETER (inches)	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"	1.25"
WELL DEPTH (feet)	11.14	10.73	4.10	3'-8"	5'-10"	NG	74.81	3'-8"	74.81	72.37	2'-7"	71.71	2'-7"	NG
RISER ABOVE GRADE (ft)	3.82	4.10	3'-8"	73.14	NG									
SCREEN INTERVAL(ft-bis)	2'-7"	3'-8"	73.14											
TOC ELEVATION	72.08													
DATE														
03/20/06	64.31	7.77	-	65.37	7.77	-	-	NG	-	-	NG	-	-	NG
03/21/06	64.33	7.75	-	65.31	7.83	-	-	8.56	-	67.50	7.31	-	65.64	6.73
06/29/06	63.12	8.96	-	64.21	8.93	-	-	9.39	-	66.19	8.62	-	65.07	7.30
02/21/07	61.78	10.30	-	62.72	10.42	-	-	8.28	-	67.81	7.00	-	61.41	10.96
AVERAGES	63.39	8.70		64.40	8.74		-	8.74		67.17	7.64		64.04	8.33
													63.60	8.11
														8.81

WELL NO.	MW-8		MW-9		MW-10		MW-11		MW-12			
	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
DIAMETER (inches)	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
WELL DEPTH (feet)	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30
RISER ABOVE GRADE (ft)	0.37	0.63	1.41	1.41	1.41	1.64	1.64	1.64	0.30	0.30	0.30	0.30
SCREEN INTERVAL(ft-bis)	5'-10"	5'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"
TOC ELEVATION	NG	NG	NG	NG	NG	74.81	74.81	74.81	72.37	72.37	72.37	72.37
DATE												
02/21/07	-	6.73	-	-	6.27	-	-	5.92	-	-	6.91	-
03/13/07	-	NG	-	-	NG	-	-	NG	-	-	6.91	-
AVERAGES	-	6.73	-	-	6.27	-	-	5.92	-	-	6.91	-

Notes:
TOC Elevation = top of casing elevation (relative feet)
Elev = elevation (relative feet)
DTW = Depth to water (feet)
FP = free product
NG = Not gauged or well TOC not surveyed

APPENDIX A

FDEP and ERMD Correspondence



Department of Environmental Protection

Jeb Bush
Governor

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Colleen M. Castille
Secretary

December 9, 2005

L. Chris Pearson
Operations Manager
Division of Solid Waste
Environmental Resource Management
1031 Superior Street
Jacksonville, FL 32254

DEC 12 2005

Re: **Cypress Swamp Dump**
Doyon Court Dump
Park Street Dump
Preliminary Contamination Assessments
Duval County - Solid Waste

RECEIVED
ERMD/Solid Waste Division

DEC 12 2005

Dear Mr. Pearson:

The Department reviewed the Preliminary Contamination Assessment Reports (PCARs) for the referenced sites, and has the following comments:

Although the PCARs confirm the presence of waste material at each site, the documents do not meet the requirements of a Preliminary Contamination Assessment Report as no analytical samples were collected.

The City of Jacksonville should prepare a Preliminary Contamination Assessment Plan (PCAP) in accordance with the enclosed guidance document entitled "Preliminary Contamination Assessment Actions."

By February 9, 2006, please submit the PCAPs for the above-referenced sites to this office.

If you have questions concerning this matter, please contact me at 904.807.3366.

Sincerely,

Sally B. Heuer, Environmental Specialist
Solid Waste Section

MS
SBH/ml

Enclosure

cc Ana E. Woods, Division Chief

"More Protection, Less Process"



Department of Environmental Protection

Job Bush
Governor

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Colleen M. Castille
Secretary

December 14, 2006

Mr. L. Chris Pearson, Chief
Division of Solid Waste
City of Jacksonville
1031 Superior Street
Jacksonville, Florida 32254

Re: **Doyon Court Dump**
Preliminary Contamination Assessment Report (PCAR) Addenda

Dear Mr. Pearson:

On April 10 and October 16, 2006, the Department received Addenda #1 and #2, respectively, to the PCAR for the above-referenced site, prepared by your consultant, Ellis & Associates, Inc. The addenda contain data from two assessment monitoring wells indicating benzene at levels in excess of the state groundwater standards. On April 17, 2005, a new rule, Chapter 62-780, Florida Administrative Code (FAC), "Contaminated Site Cleanup Criteria," became effective, which establishes specific procedures, notice requirements, and time frames for site rehabilitation. Chapter 62-780, FAC, is a phased risk-based corrective action process that tailors the site rehabilitation tasks to the site-specific conditions and risks.

In accordance with the requirements of this rule, the County, as a person responsible for the site rehabilitation, is required to submit a Site Assessment Report (SAR) within 270 days from the date of discovery of the contamination. The date of discovery in this case is the date that your consultant received the data indicating a violation of state groundwater standards/criteria. However, if additional time is needed to submit the SAR, a request for additional time should be in writing with a justification for the request.

If you have questions on this issue, please contact Brian Durden by e-mail at Brian.Durden@dep.state.fl.us, at the letterhead address or telephone number 904.807.3355.

Your cooperation is appreciated.

Sincerely,


Michael J. Fitzsimmons
Waste Program Administrator

MJF:SBH:rm

Enclosure: Notice of Rights

cc: Mr. John D. Fox, Jr., Fox Equities, LLC

"More Protection, Less Process"

Printed on recycled paper.

ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT



January 5, 2007

Mr. Michael Fitzsimmons
Waste Cleanup Administrator
Florida Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Re: Doyon Court Dump

Dear Mr. Fitzsimmons,

This is in reply to your December 14, 2006 letter requesting that the City of Jacksonville complete a Site Assessment Report (SAR) on Doyon Court. The City requests a 45 day enlargement of the time to complete the report, which I expect to submit by February 15th.

Until your letter, the last written communication from the Department was the December 9, 2005 letter from Ms. Heuer asking that the City submit a Preliminary Contamination Assessment Plan. Our consultant, Ellis & Associates, Inc., followed up this letter by completing a Preliminary Contamination Assessment Report Addendum, dated April 10, 2005, and a Preliminary Contamination Assessment Report Addendum # 2, dated September 7, 2006. The purpose of the second addendum was to confirm the benzene groundwater analytical results of the previous assessment.

I believe that your request for a SAR under Chapter 62-780 conflicts with the Department's December 2005 request. Chapter 62-780 became effective in April 2005. In order for Ellis to complete a SAR, the groundwater impacts would need to be delineated through the installation of monitoring wells.

The year end holidays after your most recent letter have made it difficult to schedule and complete field work. Now that those holidays are over I will do what I can to expedite the remaining investigation.

Complying with your request should not be considered an admission that the City of Jacksonville is a person responsible for site rehabilitation within the meaning of Chapter 62-780. To the contrary, the City does *not* believe it is responsible for the benzene contamination at the site and, therefore, *not* responsible for site rehabilitation. As reported in the Preliminary Contamination Assessment Report Addendum (April 10, 2006), aerial photography indicates subsurface dumping activity (trench and fill landfill) occurred between 1960 and 1977. The City has no knowledge about the use of the property after 1977 or the source of the benzene contamination reported in the addendum.

Solid Waste Division

1031 Superior Street | Jacksonville, FL 32254 | Phone: 904.387.8922 | Fax: 904.387.8905 | www.coj.net

January 5, 2007

Mr. Michael Fitzsimmons

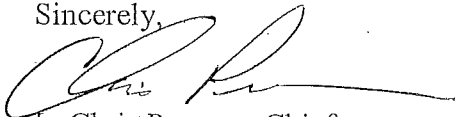
Page 2

If the Department has information establishing that the waste disposed by the City at the site included benzene, please provide it for my review.

Ellis & Associates, Inc., will submit the report on the City's behalf pursuant to the agreement with the Department on assessment of closed landfills. At the present, automobile-related operations on adjacent property to the north of the site, or unauthorized dumping, may be responsible for the benzene contamination Ellis has discovered.

The City believes it has permission from the present site owners to access their property to complete the Site Assessment Report. The City will work diligently to acquire access to adjacent properties, if necessary; however, additional time may be needed to complete the assessment if access is not readily granted or the contaminant plume extends significantly beyond the site's property boundaries.

Sincerely,



L. Chris Pearson, Chief
Solid Waste Division

cc:

R. Maguire, Esq.

Council Member Davis

G. Radlinski, OGC

E. Fuller, Ellis & Assoc.

File

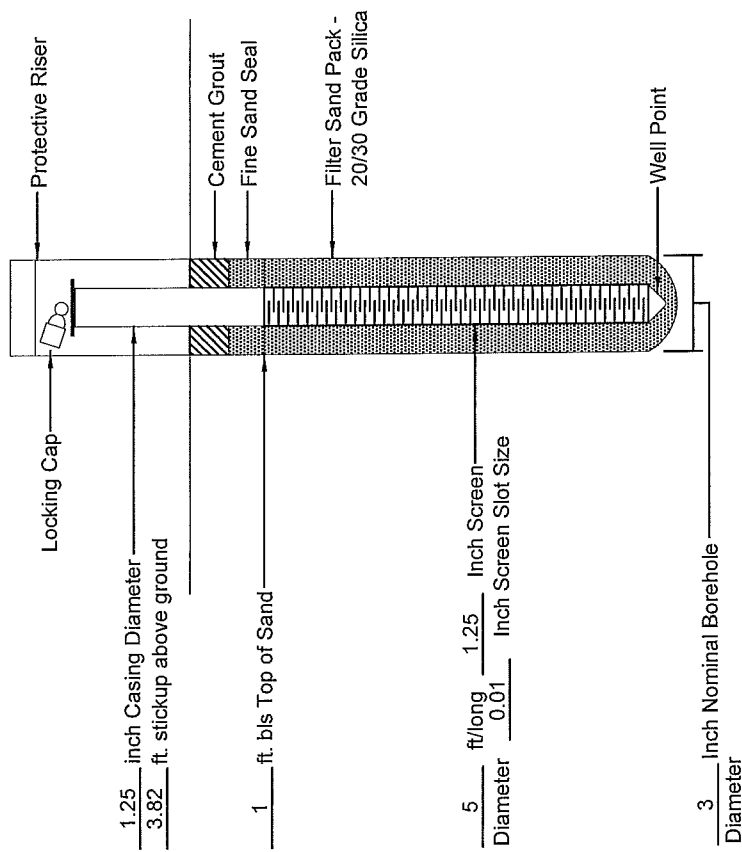
APPENDIX B

Well Completion Diagrams

MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW1
 Well Location: See Site Map

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06



Depth	Material Description
0	
5	Dark to Light Brown Fine SAND
10	
15	
20	
25	
Total Depth = 7'	

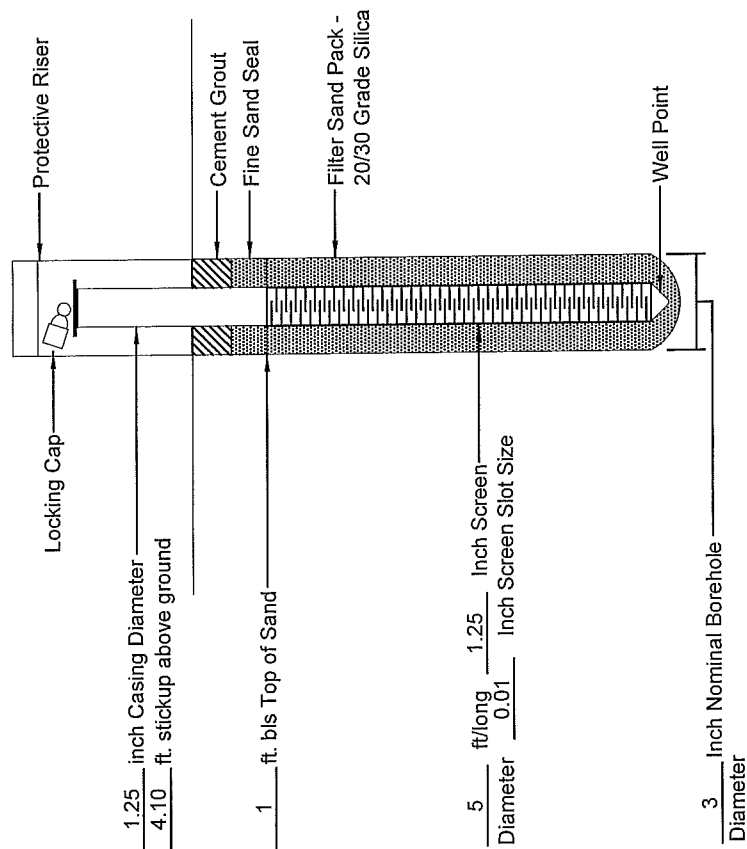
Method of Installation (Direct Push)

EA Ellis & Associates inc.
 Environmental ■ Geotechnical ■ Materials Testing
 Integrated Engineering Services **EB: 998**
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
 Serving the Southeast since 1970.
 Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW2
 Well Location: See Site Map

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06



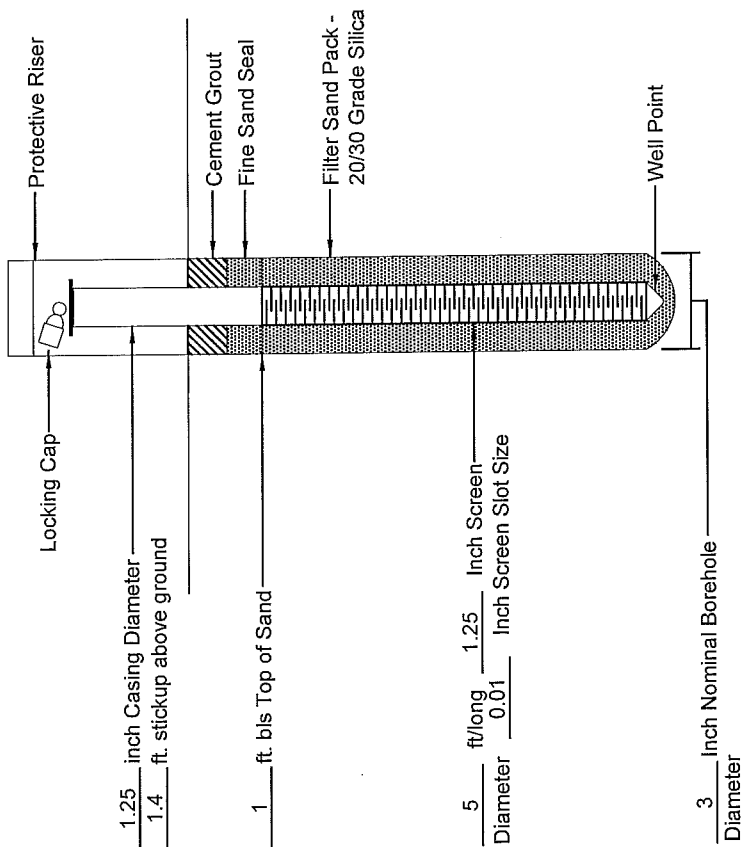
Depth	Material Description
0	
5	▼
10	Medium to Light Brown Fine SAND
15	
20	
25	Dark Brown Fine SAND, Hardpan
Total Depth = 7'	

Ellis & Associates inc.
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 Integrated Engineering Services EB: 998
 7064 Davis Creek Road Jacksonville, FL 32256
 P: 904-880-0960 F: 904-880-0970 email: ellis@ellisassoc.com
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MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW3
 Well Location: See Site Map

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06



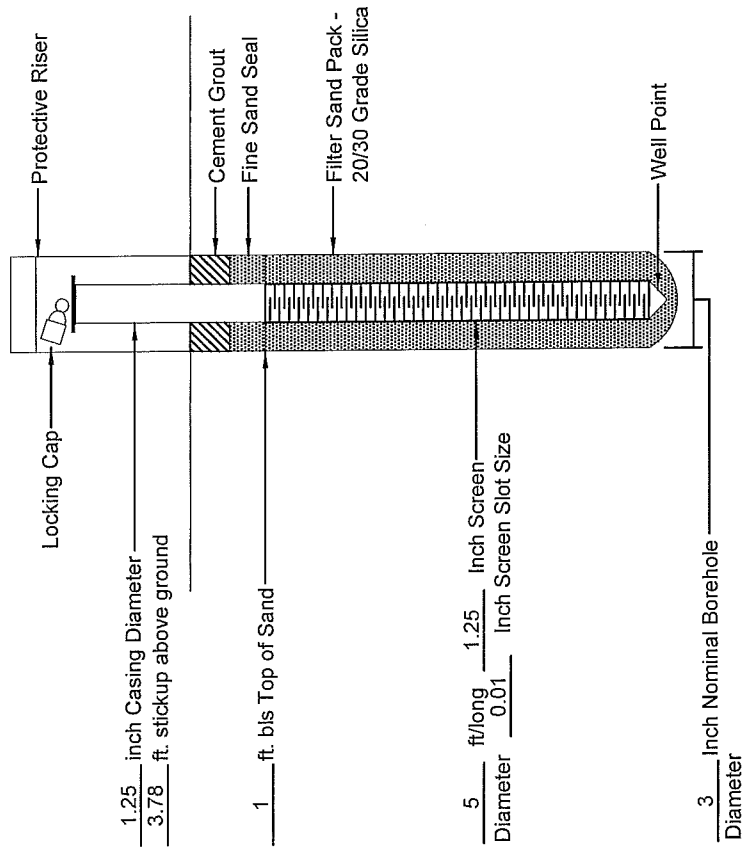
Depth	Material Description
0	
10	Medium to Dark Brown Fine SAND
15	Dark Brown Fine SAND, Hardpan
20	
25	
Total Depth = 8'	

EA **ELLIS & ASSOCIATES inc.**
 Environmental ■ Geotechnical ■ Materials Testing
 Integrated Engineering Services **EB: 998**
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
 Serving the Southeast since 1970.
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MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW4
 Well Location: See Site Map

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06



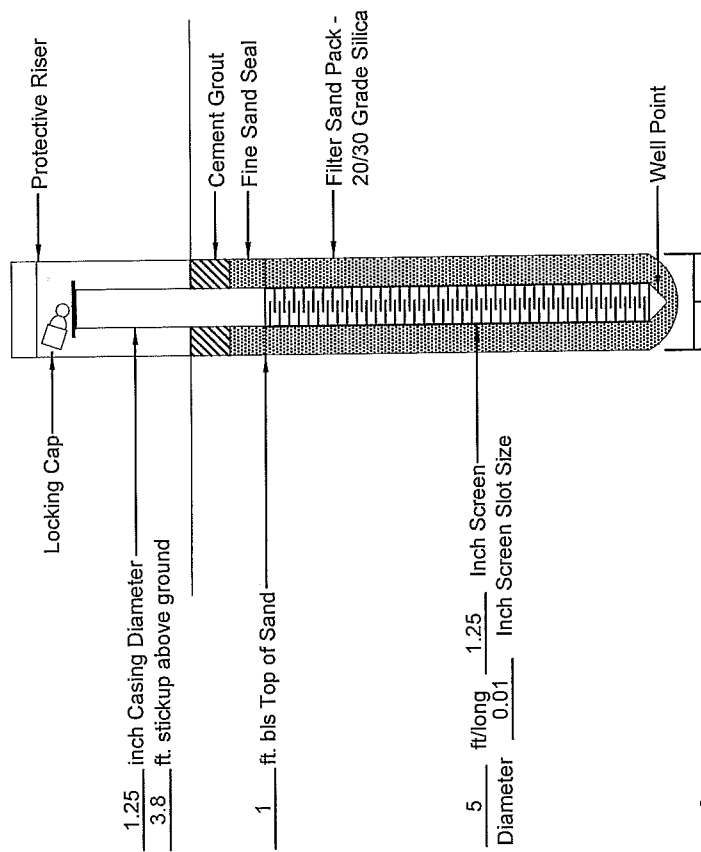
Depth	Material Description
0	
5	Medium Brown and Gray Fine SAND
10	
15	
20	
25	
Total Depth = 8'	

EA Ellis & Associates inc.
 Environmental ■ Geotechnical ■ Materials Testing
Integrated Engineering Services EB: 998
 7064 Davis Creek Road Jacksonville, FL 32256
 P: 904-880-0960 F: 904-880-0970 email: ellis@ellisassoc.com
 Serving the Southeast since 1970
 Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW5
 Well Location: See Site Map

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06



Method of Installation (Direct Push)

Depth	Material Description
0	
5	▼
10	Light Gray to Medium and Dark Brown Fine SAND
15	
20	
25	Dark Brown Fine SAND, Hardpan
Total Depth = 7'	

ELIS & ASSOCIATES inc.

Environmental ■ Geotechnical ■ Materials Testing

Integrated Engineering Services EB: 998

7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
 Serving the Southeast since 1970.

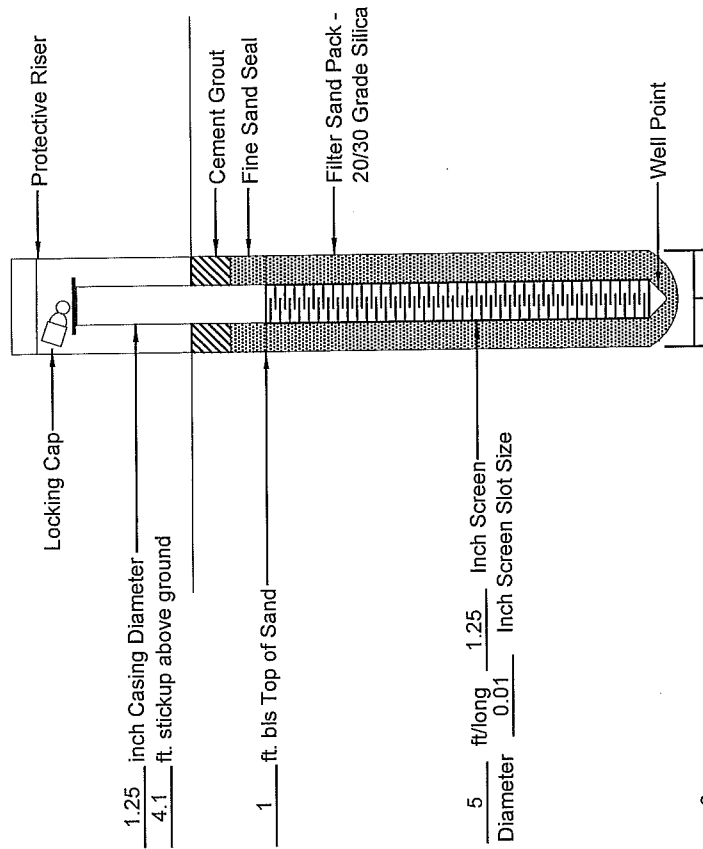
Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

MONITORING WELL CONSTRUCTION LOG

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06

Project Name: Doyon Court Dump
 Well No.: MW6
 Well Location: See Site Map

Depth	Material Description
0	
5	Medium to Light Brown Fine SAND
10	
15	
20	
25	
Total Depth = 7'	



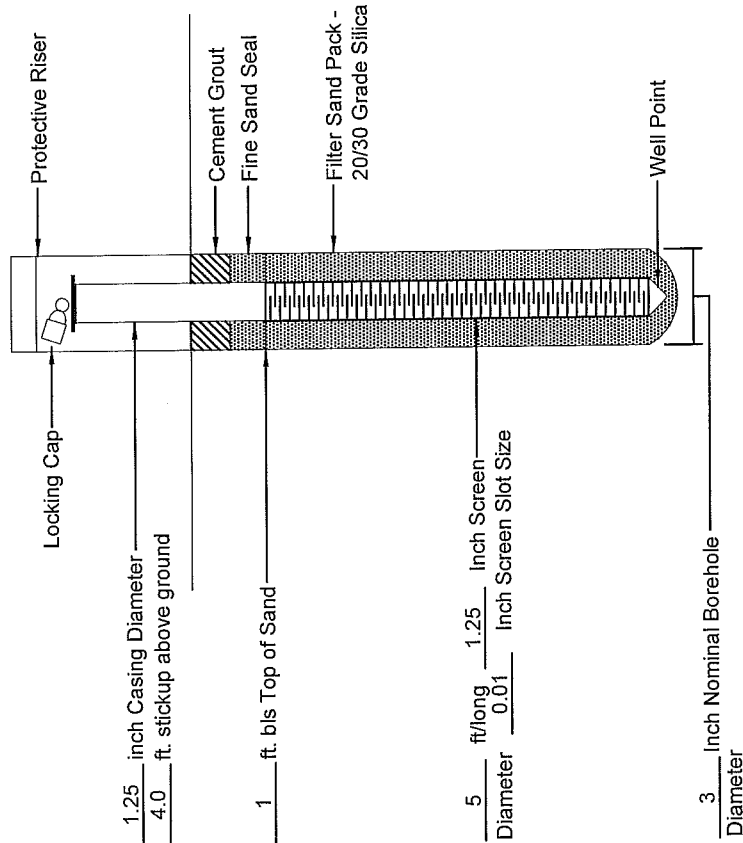
Method of Installation (Direct Push)

EA Ellis & Associates Inc.
 Environmental ■ Geotechnical ■ Materials Testing
Integrated Engineering Services EB: 998
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
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 Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW7
 Well Location: See Site Map

Project No.: 06JX-7053
 Performed By: Transamerican
 Date Performed: 03/17/06



Method of Installation (Direct Push)

Depth	Material Description
0	
5	▲
10	
15	
20	
25	
Total Depth = 7	
Light to Medium to Dark Brown Fine SAND	
Dark Brown Fine SAND, Hardpan	

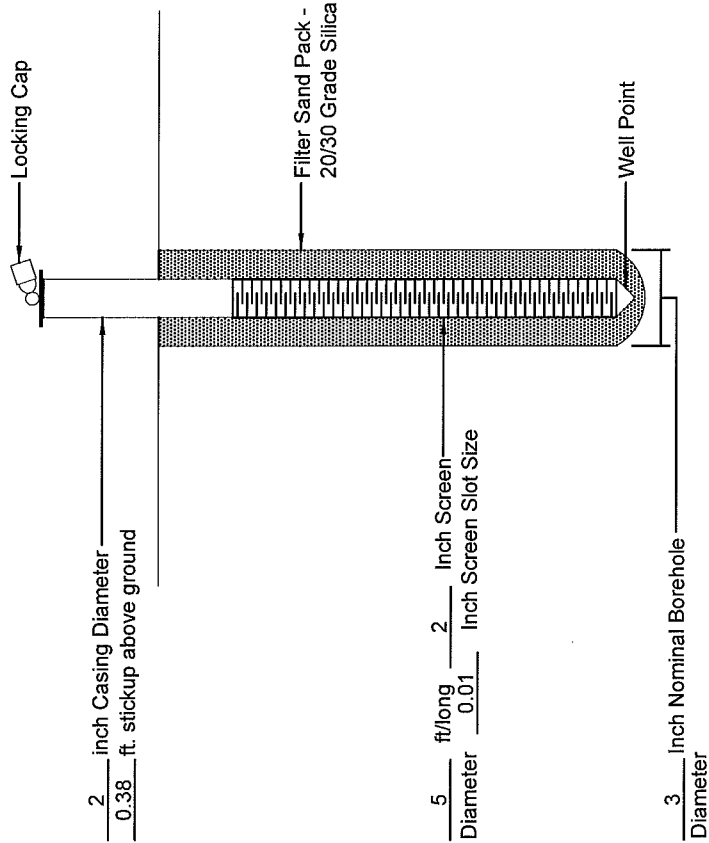
Ellis & Associates Inc.
 Environmental ■ Geotechnical ■ Materials Testing
Integrated Engineering Services EB: 998
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-580-0660 f: 904-580-0970 email: ellis@ellisassoc.com
 Serving the Southeast since 1970
 Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW8
 Well Location: See Site Map

Project No.: 0294-0043
 Performed By: JCW/MB
 Date Performed: 02/20/07

Depth	Material Description
0	
1.0	Medium Brown Fine SAND, Dry
2.0	VOID
3.0	Dark Gray Fine SAND, Dry
4.0	Dark Gray to Dark Brown Fine SAND, Dry
5.0	Light Tan Fine SAND, Dry
6.0	Light Brown Fine SAND, Dry
7.0	Light Brown Fine SAND, Moist
8.0	
9.0	Dark Brown Fine SAND, Saturated
10.0	
11.0	
12.0	
	End of Boring @ 9.92' BLS

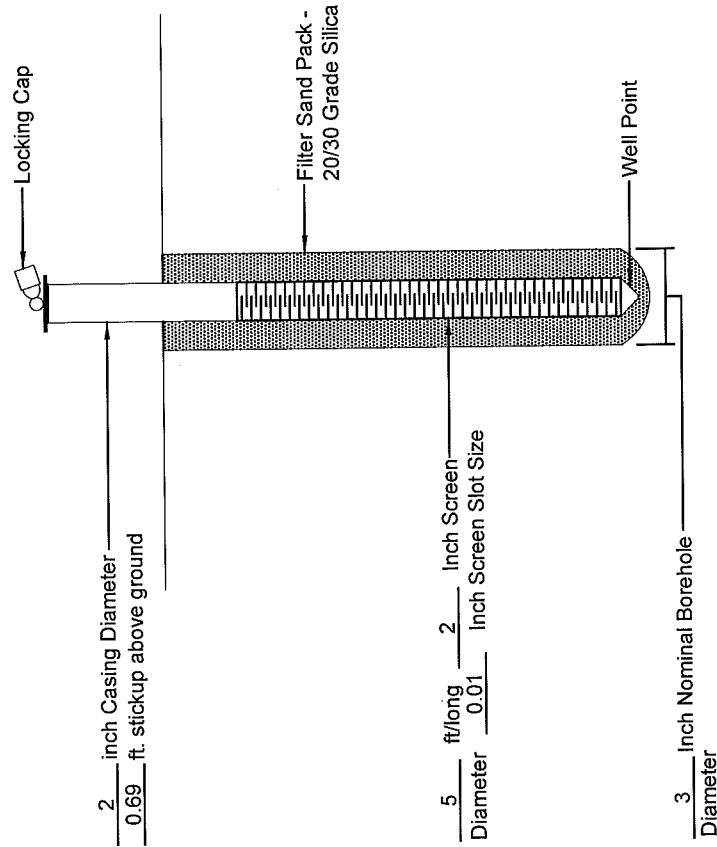


Ellis & Associates Inc.
 Environmental ■ Geotechnical ■ Materials Testing
Integrated Engineering Services EB-998
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
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 Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW9
 Well Location: See Site Map

Project No.: 0294-0043
 Performed By: JCW/MB
 Date Performed: 02/20/07



Depth	Material Description
0	
1.0	Tan to Light Tan Fine SAND, Dry
2.0	Light Tan Fine SAND, Dry
3.0	
4.0	Medium Brownn Fine SAND, Moist
5.0	
6.0	
7.0	Dark Brownn Fine SAND, Wet
8.0	
9.0	
10.0	
11.0	
12.0	
	End of Boring @ 9.61' BLS

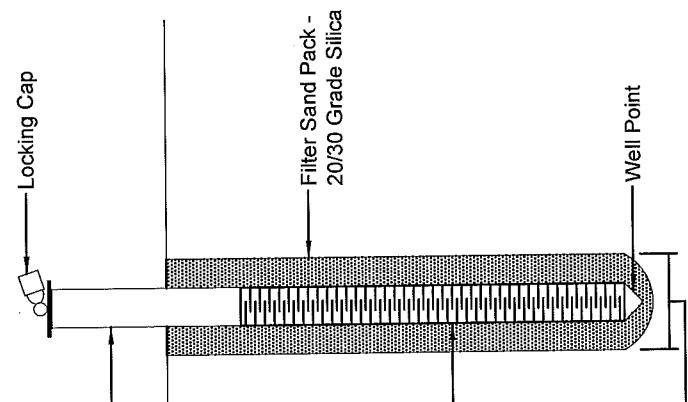
Ellis & Associates inc.
 Environmental ■ Geotechnical ■ Materials Testing
 Integrated Engineering Services EB: 998
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
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MONITORING WELL CONSTRUCTION LOG

Project No.: 0294-0043
 Performed By: JCW/MB
 Date Performed: 02/20/07

Project Name: Doyon Court Dump
 Well No.: MW10
 Well Location: See Site Map

Depth	Material Description
0	Light Brown Fine SAND, Dry
1.0	Medium Brown Fine SAND, Dry
2.0	Grayish Brown Fine SAND, Dry
3.0	Light Tan Fine SAND, Moist
4.0	
5.0	
6.0	Medium Brown Fine SAND, Wet
7.0	
8.0	
9.0	End of Boring @ 8.89' BLS
10.0	
11.0	
12.0	



2 inch Casing Diameter
1.41 ft. stickup above ground

5 ft/long 2 Inch Screen
 Diameter 0.01 Inch Screen Slot Size

3 Inch Nominal Borehole
 Diameter

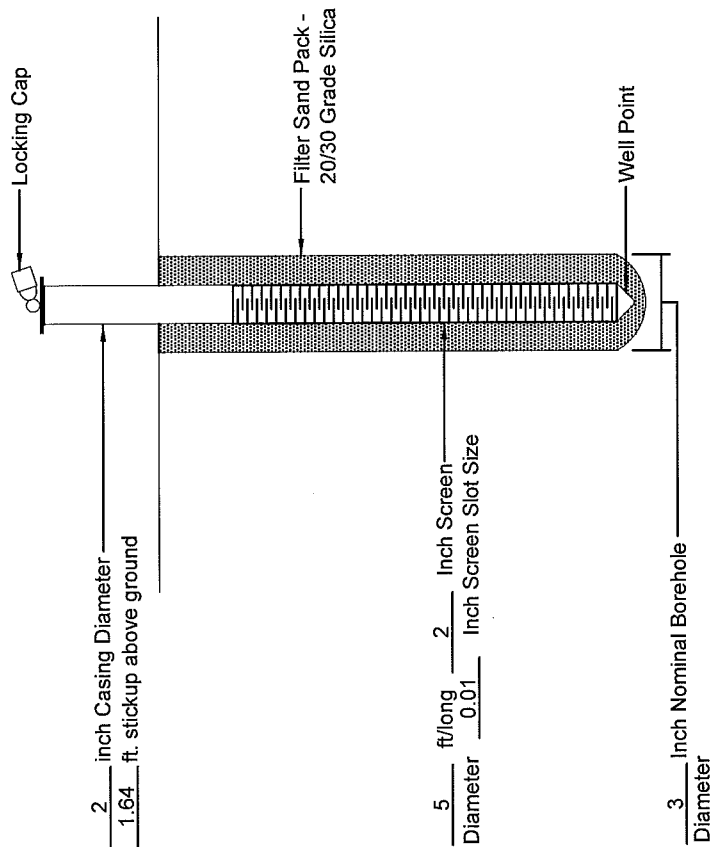
Method of Installation (Hand Auger)

Ellis & Associates Inc.
 Environmental ■ Geotechnical ■ Materials Testing
 Integrated Engineering Services **EB: 998**
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
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MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW11
 Well Location: See Site Map

Project No.: 0294-0043
 Performed By: JCW/MB
 Date Performed: 02/20/07



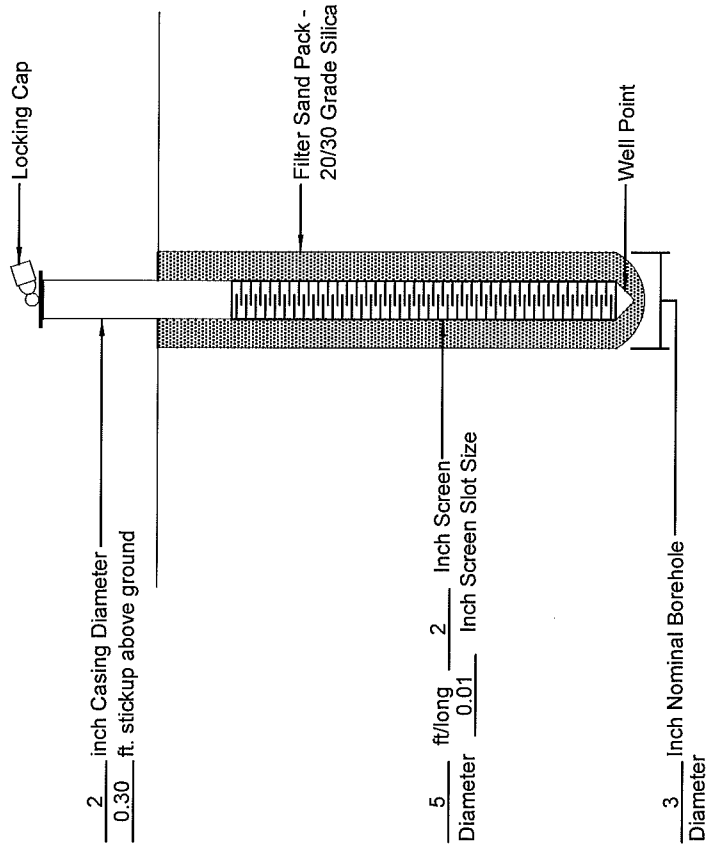
Depth	Material Description
0	Light Brown Fine SAND, Dry
1.0	Dark Gray to Brown Fine SAND, Dry
2.0	Light Gray to Brown Fine SAND, Dry
3.0	
4.0	Dark Brown Fine SAND, Dry
4.5	Reddish Brown Fine SAND, Dry
5.0	Tan to Brown Fine SAND, Moist
5.5	Medium Brown Fine SAND, Moist
6.0	Medium Brown Fine SAND, Wet
7.0	
8.0	Medium Brown Fine SAND, Saturated
9.0	
10.0	
11.0	
12.0	
	End of Boring @ 8.66' BLS

EA Ellis & Associates Inc.
 Environmental ■ Geotechnical ■ Materials Testing
 Integrated Engineering Services **EB: 998**
 7064 Davis Creek Road Jacksonville, FL 32256
 p. 904-880-0960 f. 904-880-0970 email: ellis@ellisassoc.com
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MONITORING WELL CONSTRUCTION LOG

Project Name: Doyon Court Dump
 Well No.: MW12
 Well Location: See Site Map

Project No.: 0294-0043
 Performed By: CR
 Date Performed: 03/13/07



Depth	Material Description
0	
1.0	Grayish Brown Fine SAND, Dry
2.0	Medium Brown Fine SAND, Dry
3.0	
4.0	
5.0	Dark Brown Fine SAND, Dry to Moist
6.0	
7.0	
8.0	Dark Brown Fine SAND, Saturated
9.0	
10.0	End of Boring @ 10.00' BLS
11.0	
12.0	

EA Ellis & Associates Inc.
 Environmental ■ Geotechnical ■ Materials Testing
 Integrated Engineering Services **EB: 998**
 7064 Davis Creek Road Jacksonville, FL 32256
 p: 904-880-0960 f: 904-880-0970 email: ellis@ellisassoc.com
 Serving the Southeast since 1970
 Offices: Jacksonville, FL Titusville, FL Daytona, FL Brunswick, GA

APPENDIX C

Groundwater Sampling Logs and Calibration Logs

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>Dayton Ct</u>	SITE LOCATION:
WELL NO: <u>MW-1</u>	SAMPLE ID: <u>MW-1</u> DATE: <u>2/20/07</u>

PURGING DATA			
WELL DIAMETER (Inches):	TUBING DIAMETER (Inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>10.30</u> PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 only fill out if applicable) = (11.16 feet - 10.30 feet) X .06 gallons/foot = .0516 gallons 150.258

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>10.5</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>11.6</u>	PURGING INITIATED AT: <u>1420</u>	PURGING ENDED AT: <u>1435</u>	TOTAL VOLUME PURGED (gallons): <u>0.25</u>
--	--	-----------------------------------	-------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1435</u>	<u>0.25</u>	<u>0.25</u>	<u>-</u>	<u>-</u>	<u>5.91</u>	<u>22.5</u>	<u>119.1</u>	<u>20.4</u>	<u>100.2</u>	<u>Clear Brown</u>	<u>org</u>
<u>- Well Purged Dry -</u>											
										<u>84.6.47</u>	
										<u>Turbidity @ Sampling Time</u>	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88	TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
--	---

SAMPLING DATA			
SAMPLED BY (PRINT) / AFFILIATION: <u>E Waldron/EA</u>	SAMPLER(S) SIGNATURES: <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1445</u>	SAMPLING ENDED AT: <u>1450</u>

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: _____ µm	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	<u>3</u>	<u>CG</u>	<u>40mL</u>	<u>HCL</u>	<u>-</u>	<u>-</u>	<u>8260</u>	<u>RFP</u>

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravily Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

$$\begin{array}{r} 11.16 \\ 10.30 \\ \hline 0.86 \\ 0.06 \\ \hline 0.516 \\ 150.258 \end{array}$$

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Doyon Court Dump	SITE LOCATION: Normandy Blvd
WELL NO: Tmw-12	SAMPLE ID: Tmw-1 DATE: 3/13/07

PURGING DATA *Stickup = 0.30*

WELL DIAMETER (Inches): 2"	TUBING DIAMETER (Inches): 1.25"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.91	PURGE PUMP TYPE OR BAILER: PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY <i>Stickup = 2.712</i> only fill out if applicable) $= (10.30 \text{ feet} - 6.91 \text{ feet}) \times 1.16 \text{ gallons/foot} = 3.89 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.95		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.30		PURGING INITIATED AT: 1315		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1325	1.00	1.00	.10	8.20	5.12	20.0	216	32.8	191.6	cloudy brown	LHT organic
1330	.50	1.50	.10	8.21	5.10	20.0	213	35.9	141.1	clear brown	very LHT organic
1335	.50	2.00	.10	8.21	5.10	20.0	213	38.6	103.2	clear cloudy	" "
1340	.50	2.50	.10	8.21	5.10	20.0	213	39.1	87.99	clear cloudy	" "
1345	.50	3.00	.10	8.21	5.09	20.0	213	38.5	79.06	cloudy	" "
1350	.50	3.50	.10	8.21	5.09	20.0	213	35.3	78.45	cloudy	" "
1355	.50	4.00	.10	8.21	5.09	19.9	213	36.5	77.24	cloudy	" "

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Rivera	SAMPLER(S) SIGNATURES: <i>CJR</i>	SAMPLING INITIATED AT: 1357	SAMPLING ENDED AT: 1400
PUMP OR TUBING DEPTH IN WELL (feet): 9.30	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PE/S	
FIELD DECONTAMINATION: <input checked="" type="radio"/> N	FIELD-FILTERED: <input checked="" type="radio"/> N FILTER SIZE: _____ µm	DUPLICATE: <input checked="" type="radio"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
Tmw-1	3	CG	40ml	HCL/ICE			BTK, MTBE	RPPP

REMARKS: **Pump 1 gallon to develop before purging.**

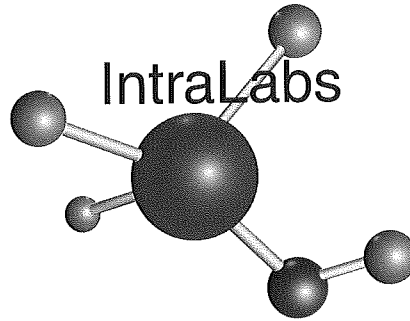
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 22-12, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

APPENDIX D

Laboratory Analytical Reports



Analytical Report

IntraLabs, Inc. is pleased to provide the following analytical report associated with the following site / project:

Client: Ellis & Associates

Project Manager: Gabe Pastrana

Project: Doyon Ct.

Laboratory Number: L222784

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Thomas A. Carr". The signature is written in a cursive style with a long horizontal stroke extending to the left.

Thomas A. Carr
Principal



ANALYTICAL RESULTS

Printed: 03/02/07 03:22pm

ATTN: GABE PASTRANA
ELLIS & ASSOCIATES
7064 DAVIS CREEK ROAD
JACKSONVILLE, FL 32256

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
Job Name: DOYON CT
Job Id:

Inv. No: 185766

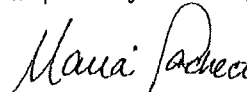
Collected by: Customer Sampled

Laboratory	Client
Sample #	Sample #
L222784-1	MW-1

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-
exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL
and PQL;
Lab certification IDs: FLD0H/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ
FL014;PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.

US Biosystems 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

Respectfully submitted,


Maria Pacheco
Project Manager

ANALYTICAL RESULTS

Printed: 03/02/07 03:22pm

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES

Inv. No: 185766

Job Name: DOYON CT

Job Id:

Sample Number L222784-1
 Sample Description MW-1
 Samp. Date/Time/Temp 02/20/07 02:45pm NA C
 Receive Date 02/23/07
 Sampled by Customer Sampled
 Received Temp 3 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8260	U ug/1	1	0.19	1.0	N/A	02/28/07 BL
BENZENE	5030/8260	2.4 ug/1	1	0.18	1.0	N/A	02/28/07 BL
TOLUENE	5030/8260	0.45 I ug/1	1	0.26	1.0	N/A	02/28/07 BL
CHLOROBENZENE	5030/8260	4.8 ug/1	1	0.23	1.0	N/A	02/28/07 BL
ETHYL BENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
M&P-XYLENES	5030/8260	U ug/1	1	0.66	2.0	N/A	02/28/07 BL
O-XYLENE	5030/8260	U ug/1	1	0.25	1.0	N/A	02/28/07 BL
XYLENES (TOTAL)	5030/8260	U ug/1	1	0.250	1.00	N/A	02/28/07 BL
1,3-DICHLOROBENZENE	5030/8260	0.52 I ug/1	1	0.28	1.0	N/A	02/28/07 BL
1,4-DICHLOROBENZENE	5030/8260	0.58 I ug/1	1	0.24	1.0	N/A	02/28/07 BL
1,2-DICHLOROBENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
SURROGATES		% RECOVERY			% Recovery Limits		
DIBROMOFLUOROMETHANE (SURR)	5030/8260	119 %	1		69-134		02/28/07 BL
TOLUENE-D8 (SURR)	5030/8260	116 %	1		63-127		02/28/07 BL
4-BROMOFLUOROBENZENE (SURR)	5030/8260	120 %	1		64-130		02/28/07 BL



3231NW 7th Ave, Boca Raton, FL 33431
www.usbiosystems.com

CHAIN OF CUSTODY RECORD

Log# 222784 T#S 1 Quote: _____ Page 6 of 1

Container Type Codes	
AV Amber Vial	CS Encore Sampler
GV Glass Vial	DMV Progress/Std vial
P Plastic	PL, G Plastic Washbottle
AL Amber Jar	PL, G Plastic Jar
CL Clear-Liter	Ziplon Ziploc bag
AP Amber Glass	LELARS recd bag
AG Amber Glass	WHIRL P Whirlpak
BJ Sol Jar	G Galon Jug
Other	
Glass: 2oz, 4oz, 8oz, 16oz, 50oz or 1L, 40oz (4qt)	
Example: 4ozP = 4oz Plastic, 8ozBS = 8oz Bolt Jar	

Matrix Codes*	
SD Solid Waste	WW Waste Water
SO Sol	AFW Analyte Free Water
SE Sediment	DW Drinking Water
OL Oil	SU Surface Water
PE Petroleum	AQ Aqueous
NA Nonaqueous	SW Surface Water
ML Misc. Liquid	K Air
GM Ground Water	D Other
EFF Effluent	(Please Specify)
INF Infusant	

Pres Codes		
A. None	E. HCL	I. Ico
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

LAB ANALYSIS										
Sample Label (Client #)	Matrix Code*	Pres Code	Parameter	1	2	3	4	5	6	7
1 MW-1 2/20/07 1445 GW			Lead	✓						
2										
3										
4										
5										
6										
7										
8										
9										
0										

REMARKS

Ⓢ No Coc received with this sample
Sample rec'd on 2/29/07 (Sat)

Sample ID	Client	Project	Analyst	Lab	Date	Time	Temp
1	M/Facker	USB	2/20/07 1000am	M/SY	USB	2-26-07	15.30
				M/SY	USA	2-23-07	11.00

Lab Use Only	
Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

ORIGINAL



ANALYTICAL RESULTS
Printed: 03/02/07 03:21pm

ATTN: GABE PASTRANA
ELLIS & ASSOCIATES
7064 DAVIS CREEK ROAD
JACKSONVILLE, FL 32256

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
Job Name: DOYON COURT DUMP
Job Id:

Inv. No: 185593

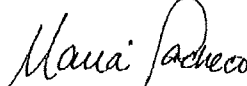
Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
L222702-1	TMW-8
L222702-2	TMW-11
L222702-3	TMW-3A
L222702-4	TMW-10
L222702-5	TMW-9

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FLO14;PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.

US Biosystems 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

Respectfully submitted,


Maria Pacheco
Project Manager

ANALYTICAL RESULTS

Printed: 03/02/07 03:21pm

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
 Job Name: DOYON COURT DUMP
 Job Id:

Inv. No: 185593

Sample Number L222702-1
 Sample Description TMW-8
 Samp. Date/Time/Temp 02/21/07 11:28am NA C
 Receive Date 02/23/07
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8260	U ug/1	1	0.19	1.0	N/A	02/28/07 BL
BENZENE	5030/8260	4.6 ug/1	1	0.18	1.0	N/A	02/28/07 BL
TOLUENE	5030/8260	0.57 I ug/1	1	0.26	1.0	N/A	02/28/07 BL
CHLOROBENZENE	5030/8260	3.7 ug/1	1	0.23	1.0	N/A	02/28/07 BL
ETHYL BENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
M&P-XYLENES	5030/8260	U ug/1	1	0.66	2.0	N/A	02/28/07 BL
O-XYLENE	5030/8260	U ug/1	1	0.25	1.0	N/A	02/28/07 BL
XYLENES (TOTAL)	5030/8260	U ug/1	1	0.250	1.00	N/A	02/28/07 BL
1,3-DICHLOROBENZENE	5030/8260	U ug/1	1	0.28	1.0	N/A	02/28/07 BL
1,4-DICHLOROBENZENE	5030/8260	U ug/1	1	0.24	1.0	N/A	02/28/07 BL
1,2-DICHLOROBENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
SURROGATES		% RECOVERY		% Recovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	126 %	1		69-134		02/28/07 BL
TOLUENE-D8 (SURR)	5030/8260	117 %	1		63-127		02/28/07 BL
4-BROMOFLUOROBENZENE (SURR)	5030/8260	124 %	1		64-130		02/28/07 BL

ANALYTICAL RESULTS

Printed: 03/02/07 03:21pm

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
 Job Name: DOYON COURT DUMP
 Job Id:

Inv. No: 185593

Sample Number L222702-2
 Sample Description TMW-11
 Samp. Date/Time/Temp 02/21/07 12:56pm NA C
 Receive Date 02/23/07
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8260	U ug/1	1	0.19	1.0	N/A	02/28/07 BL
BENZENE	5030/8260	U ug/1	1	0.18	1.0	N/A	02/28/07 BL
TOLUENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
CHLOROBENZENE	5030/8260	U ug/1	1	0.23	1.0	N/A	02/28/07 BL
ETHYL BENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
M&P-XYLENES	5030/8260	U ug/1	1	0.66	2.0	N/A	02/28/07 BL
O-XYLENE	5030/8260	U ug/1	1	0.25	1.0	N/A	02/28/07 BL
XYLENES (TOTAL)	5030/8260	U ug/1	1	0.250	1.00	N/A	02/28/07 BL
1,3-DICHLOROBENZENE	5030/8260	U ug/1	1	0.28	1.0	N/A	02/28/07 BL
1,4-DICHLOROBENZENE	5030/8260	U ug/1	1	0.24	1.0	N/A	02/28/07 BL
1,2-DICHLOROBENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
SURROGATES		% RECOVERY			% Recovery Limits		
DIBROMOFLUOROMETHANE (SURR)	5030/8260	121 %	1		69-134		02/28/07 BL
TOLUENE-D8 (SURR)	5030/8260	117 %	1		63-127		02/28/07 BL
4-BROMOFLUOROBENZENE (SURR)	5030/8260	120 %	1		64-130		02/28/07 BL

ANALYTICAL RESULTS

Printed: 03/02/07 03:21pm

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
 Job Name: DOYON COURT DUMP
 Job Id:

Inv. No: 185593

Sample Number L222702-3
 Sample Description TMW-3A
 Samp. Date/Time/Temp 02/21/07 01:57pm NA C
 Receive Date 02/23/07
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8260	U ug/1	1	0.19	1.0	N/A	02/28/07 BL
BENZENE	5030/8260	3.1 ug/1	1	0.18	1.0	N/A	02/28/07 BL
TOLUENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
CHLOROBENZENE	5030/8260	9.5 ug/1	1	0.23	1.0	N/A	02/28/07 BL
ETHYL BENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
M&P-XYLENES	5030/8260	U ug/1	1	0.66	2.0	N/A	02/28/07 BL
O-XYLENE	5030/8260	U ug/1	1	0.25	1.0	N/A	02/28/07 BL
XYLENES (TOTAL)	5030/8260	U ug/1	1	0.250	1.00	N/A	02/28/07 BL
1,3-DICHLOROBENZENE	5030/8260	U ug/1	1	0.28	1.0	N/A	02/28/07 BL
1,4-DICHLOROBENZENE	5030/8260	U ug/1	1	0.24	1.0	N/A	02/28/07 BL
1,2-DICHLOROBENZENE	5030/8260	U ug/1	1	0.26	1.0	N/A	02/28/07 BL
SURROGATES		% RECOVERY			% Recovery Limits		
DIBROMOFLUOROMETHANE (SURR)	5030/8260	126 %	1		69-134		02/28/07 BL
TOLUENE-D8 (SURR)	5030/8260	112 %	1		63-127		02/28/07 BL
4-BROMOFLUOROBENZENE (SURR)	5030/8260	127 %	1		64-130		02/28/07 BL

ANALYTICAL RESULTS

Printed: 03/02/07 03:21pm

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
 Job Name: DOYON COURT DUMP
 Job Id:

Inv. No: 185593

Sample Number L222702-4
 Sample Description TMW-10
 Samp. Date/Time/Temp 02/21/07 02:45pm NA C
 Receive Date 02/23/07
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8260	U ug/l	1	0.19	1.0	N/A	02/28/07 BL
BENZENE	5030/8260	0.76 I ug/l	1	0.18	1.0	N/A	02/28/07 BL
TOLUENE	5030/8260	0.31 I ug/l	1	0.26	1.0	N/A	02/28/07 BL
CHLOROBENZENE	5030/8260	16 ug/l	1	0.23	1.0	N/A	02/28/07 BL
ETHYL BENZENE	5030/8260	U ug/l	1	0.26	1.0	N/A	02/28/07 BL
M&P-XYLENES	5030/8260	U ug/l	1	0.66	2.0	N/A	02/28/07 BL
O-XYLENE	5030/8260	U ug/l	1	0.25	1.0	N/A	02/28/07 BL
XYLENES (TOTAL)	5030/8260	U ug/l	1	0.250	1.00	N/A	02/28/07 BL
1,3-DICHLOROBENZENE	5030/8260	U ug/l	1	0.28	1.0	N/A	02/28/07 BL
1,4-DICHLOROBENZENE	5030/8260	13 ug/l	1	0.24	1.0	N/A	02/28/07 BL
1,2-DICHLOROBENZENE	5030/8260	U ug/l	1	0.26	1.0	N/A	02/28/07 BL
SURROGATES		% RECOVERY			% Recovery Limits		
DIBROMOFLUOROMETHANE (SURR)	5030/8260	126 %	1		69-134		02/28/07 BL
TOLUENE-D8 (SURR)	5030/8260	113 %	1		63-127		02/28/07 BL
4-BROMOFLUOROBENZENE (SURR)	5030/8260	125 %	1		64-130		02/28/07 BL

ANALYTICAL RESULTS

Printed: 03/02/07 03:21pm

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
 Job Name: DOYON COURT DUMP
 Job Id:

Inv. No: 185593

Sample Number L222702-5
 Sample Description TMW-9
 Samp. Date/Time/Temp 02/21/07 03:47pm NA C
 Receive Date 02/23/07
 Sampled by Customer Sampled
 Received Temp 4 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8260	U ug/l	1	0.19	1.0	N/A	02/28/07 BL
BENZENE	5030/8260	U ug/l	1	0.18	1.0	N/A	02/28/07 BL
TOLUENE	5030/8260	U ug/l	1	0.26	1.0	N/A	02/28/07 BL
CHLOROBENZENE	5030/8260	U ug/l	1	0.23	1.0	N/A	02/28/07 BL
ETHYL BENZENE	5030/8260	U ug/l	1	0.26	1.0	N/A	02/28/07 BL
M&P-XYLENES	5030/8260	U ug/l	1	0.66	2.0	N/A	02/28/07 BL
O-XYLENE	5030/8260	U ug/l	1	0.25	1.0	N/A	02/28/07 BL
XYLENES (TOTAL)	5030/8260	U ug/l	1	0.250	1.00	N/A	02/28/07 BL
1,3-DICHLOROBENZENE	5030/8260	U ug/l	1	0.28	1.0	N/A	02/28/07 BL
1,4-DICHLOROBENZENE	5030/8260	U ug/l	1	0.24	1.0	N/A	02/28/07 BL
1,2-DICHLOROBENZENE	5030/8260	U ug/l	1	0.26	1.0	N/A	02/28/07 BL
SURROGATES		% RECOVERY			% Recovery Limits		
DIBROMOFLUOROMETHANE (SURR)	5030/8260	131 %	1		69-134		02/28/07 BL
TOLUENE-D8 (SURR)	5030/8260	112 %	1		63-127		02/28/07 BL
4-BROMOFLUOROBENZENE (SURR)	5030/8260	124 %	1		64-130		02/28/07 BL

L-222702 Chain of Custody Record

Occupancy: **Ellis + Associates**
 Address: **7064 Davis Creech Jacksonville FL**
 Phone: **904 880 0960** Fax: **904 880 0970**
 Project Manager: **G. Bustrana**
 Sample(s) Signature(s): *[Signature]*

IntraLabs, Inc.
 Address: 1909 Southampton Road
 Jacksonville, FL 32207
 Phone: (904) 396-6868 • Fax: (904) 396-3933

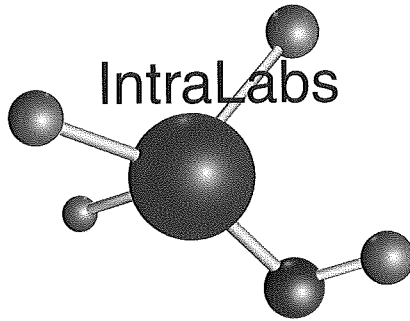
Item No.	Field ID No.	Sampled		Grab or Composite	Matrix (see codes)	Number of Containers	Analyses Requested		Lab. No.
		Date	Time				#	P	
1	TMW-8	02/21	1128	G	G-W	3	CUSTOMY SEALSTON		
2	TMW-11	02/21	1256	G	G-W	3	PH CONTROL		
3	TMW-3A	02/21	1357	G	G-W	3			
4	TMW-10	02/21	1445	G	G-W	3			
5	TMW-9	02/21	1547	G	G-W	3			

Project Name: **Doyon Court Pump**
 Surcharging CompQA# No.:
 Approval Date:
 REQUESTED DUH: DATE: **1/5/01**
 Remarks: **Call for PO**
QA/QC required
3V

Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	<i>[Signature]</i>	2/21/01	1618	<i>[Signature]</i>	2/21/01	1618
	<i>[Signature]</i>	2/22/01	1700	<i>[Signature]</i>	2/22/01	1700

Additional Comments: **7MCP/4515 2/23/01 09:40**

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)
 PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = (specify)



Analytical Report

IntraLabs, Inc. is pleased to provide the following analytical report associated with the following site / project:

Client: Ellis

Project Manager: Eric Fuller

Project: Doyon Court Dump

Laboratory Number: L223865

Respectfully Submitted,

A handwritten signature in black ink that reads "Thomas A. Carr". The signature is written in a cursive style with a long, sweeping underline that extends to the left.

Thomas A. Carr
Principal



ANALYTICAL RESULTS
Printed: 03/20/07 08:35am

ATTN: ERIC B. FULLER
ELLIS & ASSOCIATES
7064 DAVIS CREEK RD.
JACKSONVILLE, FL 32256

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
Job Name: DOYON COURT DUMP
Job Id:

Inv. No: 186609

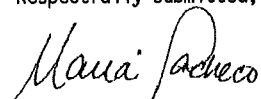
Collected by: Customer Sampled

Laboratory	Client
Sample #	Sample #
L223866-1	TMW-12

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014;PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.

US Biosystems 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

Respectfully submitted,


Maria Pacheco
Project Manager

ANALYTICAL RESULTS
 Printed: 03/20/07 08:35am

Project No: 003541 ELLIS & ASSOC, ELLIS & ASSOCIATES
 Job Name: DOYON COURT DUMP
 Job id:

Inv. No: 186609

Sample Number L223866-1
 Sample Description TMW-12
 Samp. Date/Time/Temp 03/13/07 :m NA C
 Receive Date 03/14/07
 Sampled by Customer Sampled
 Received Temp 3 C Iced (Y/N): Y

Parameter	Method	Result	DIL	MDL	PQL	Prep Date	Test Date, Analyst
Volatile Organic Compounds							
METHYL TERTIARY BUTYLETHER	5030/8021	0.830 I ug/l	1	0.31	5.0	N/A	03/15/07 KO
BENZENE	5030/8021	1.36 ug/l	1	0.060	1.0	N/A	03/15/07 KO
TOLUENE	5030/8021	0.290 IV ug/l	1	0.090	1.0	N/A	03/15/07 KO
ETHYL BENZENE	5030/8021	U ug/l	1	0.10	1.0	N/A	03/15/07 KO
M&P-XYLENES	5030/8021	U ug/l	1	0.38	2.0	N/A	03/15/07 KO
O-XYLENE	5030/8021	U ug/l	1	0.13	1.0	N/A	03/15/07 KO
XYLENES (TOTAL)	5030/8021	U ug/l	1	0.130	1.00	N/A	03/15/07 KO
SURROGATES		% RECOVERY		% Recovery	Limits		
A,A,A-TRIFLUOROTOLUENE (SURR)	5030/8021	88 %	1		68-124	N/A	03/15/07 KO

