Corrective Action and Semi-Annual Monitoring Report

Walker Motors
Montpelier, Vermont
VT DEC #2003-3108

July 2004

Prepared For:

WALKER MOTORS, INC.
265 RIVER STREET
MONTPELIER, VERMONT

Document No. VTA3-0026Dr04
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EXECUTIVE SUMMARY

Environmental Compliance Services, Inc. (ECS) has performed corrective action and a sampling event at Walker Motors, located at 265 River Street in Montpelier, Vermont. The corrective action included the removal of 283 cubic yards of contaminated soil north of the auto body shop, where #2 fuel oil free-phase product was encountered in five on-site monitoring wells. ECS's findings related to this work are summarized as follows:

- Residual soil contamination was detected in the composite bottom and sidewall samples collected from the limits of excavation at concentrations below the EPA Primary Remedial Goals (PRGs).

- Based on the hydrogeologic data, the groundwater in the unconfined surficial aquifer at the auto body shop appears to flow generally north and then shifts eastward toward the Winooski River. Groundwater at the part's department flows generally southeast toward the Winooski River.

- Groundwater samples were collected from fifteen selected site monitoring wells. Vermont Groundwater Enforcement Standards (VGESs) were exceeded for one or more petroleum-related compounds in 10 of the 15 sampled wells.

- Four wells were sampled in the vicinity of the soil excavation. Only MW-3 contained free-product. MW-6A, located between the water and sewer lines, contained VGES exceedances for five compounds. MW-1A, MW-5A exceeded VGESs for three compounds. No volatile organic compounds (VOC's) were detected in the MW-8 sample, located just east of the excavation area.

- No VOCs were detected in on-site monitoring wells MW-10 and MW-12.

- VGESs were exceeded for four VOCs in the catch basin sample, CB-3.

- In the swale area, VGESs for 1,2,4-Trimethylbenzene (1,2,4-TMB) were exceeded in the MW-17 and MW-19 samples. No VOCs were detected in off-site monitoring wells MW-15 and MW-18.

- The monitoring wells at the parts department (PD-2 through PD-6 and DEC-1) exceeded four or more VGESs. All of the samples collected at the parts department monitoring wells were identified as gasoline.

- Two surface water samples (SW-1 and SW-2) were collected along the swale located across U.S. Route 2. Water Quality Criteria (WQC) standards were not exceeded in any of the samples obtained from the swale area.

1.0 INTRODUCTION

Environmental Compliance Services, Inc. (ECS) has performed corrective action and one sampling event at Walker Motors, located at 265 River Street in Montpelier, Vermont (Figure 1). Approval to proceed with the corrective action plan and semi-annual sampling was provided in a letter dated 13 April 2004 from Mr. Gerold Noyes of the State of Vermont Agency of Natural Resources (VT ANR), Sites Management Section (SMS).

The corrective action included the removal of 283 cubic yards of contaminated soil north of the auto body shop, where #2 fuel oil free-phase product was encountered in five on-site monitoring wells. Petroleum contamination was first discovered at this location during the removal of a 4,000 gallon #2 fuel oil underground storage tank (UST) adjacent to the auto body shop in April 2003. Previous investigations included drilling 28 soil borings, installing 20 monitoring wells, and monitoring the free-product plume.

The site sampling event was conducted as part of a continuing long-term monitoring program adjacent to the parts department of the main facility, where a separate dissolved-phase contamination plume was discovered following the removal of a second 4,000-gallon #2 fuel oil UST on 3 October 2003. Ten soil borings and six monitoring wells were installed in the vicinity of the former UST.

The site is currently occupied by an automobile dealership. The main showroom is located on U.S. Route 2 at its intersection with U.S. Route 302. The auto body shop is located at a higher elevation (approximately 30 feet) behind the showroom. The majority of the new cars and trucks for sale are parked northwest of the main showroom and additional vehicle parking is south of the building, adjacent to the parts department.

The surrounding areas are primarily commercial properties located off U.S. Routes 2 and 302. The ground surface at the auto body shop slopes downward to the north and northeast, toward the Winooski River. The former Grossman's Lumber building (now vacant) is located across U.S. Route 2, east and downgradient of the site. The ground surface at the parts department slopes to the south and southeast toward the Winooski River. The former Allison Transmission building (now vacant) is located across U.S. Route 302 southeast and downgradient of the site.

The general objectives of corrective action at the site were as follows:

- Significantly reduce the fuel oil contaminant mass within the source area by excavation to a point where natural attenuation of remaining contamination can occur; and,
- Mitigate the risk to sensitive receptors, including the stormwater drainage system and the Winooski River;
- Perform the first semi-annual site monitoring event following the excavation. Site monitoring included the collection of groundwater samples at select wells at the auto body shop (MW-1A, MW-5A, MW-6A, MW-8, MW-10, MW-12, MW-15, MW-17, MW-18, and MW-19) and the parts department (PD-2, PD-3, PD-4, PD-5, and DEC-1), the collection of surface water samples from the swale area, and the replacement of booms in the swale and catch basin.

2.0 CONTAMINATED SOIL EXCAVATION

2.1 ENGINEERING CONTROLS

Prior to the commencement of soil excavation, Cross Consulting Engineers, Inc. (Cross) of St. Albans, Vermont performed a structural evaluation of the auto body shop building as a baseline to ensure that the integrity of the building was maintained (Appendix A). Cross recommended several options. These included:

- excavation of ten-foot wide trenches along the building face down to the footing and then sloping at a 45 degree angle away from the footing. It was recommended that the trenches be backfilled to driveway level before the next trench was initiated, leaving in place the adjacent soil on each side of the trench.
- installation of sheet piling close to the building and staying 10 horizontal feet from the building. It was noted that the installation of sheet piling may cause damage to the building's foundation or crack the masonry walls.
- excavation at greater than 10 feet horizontal from the building. It was noted that excavation at 10 feet limits the quantity of soil that can be removed near the building.

ECS elected to perform the excavation utilizing 10-foot trenches along the north side of the building. This option maximized contaminated soil removal while minimizing potential damage to the building. A total of ten trenches were excavated and subsequently backfilled within the designated excavation area, four of which were along side the building. The trenches began approximately six feet from the building and were appropriately sloped at the base to ensure structural support.

2.2 EXCAVATION

Approximately 283 cubic yards of contaminated soil were removed from the source area. The proposed area of excavation was approximately 1,750 square feet. The limits of the excavation were selected based on the presence of free-phase product in source area monitoring wells (Figure 2). ECS collected soil disposal characterization samples from the source area prior to excavation to facilitate the direct loading of trucks for disposal and eliminating the need to stockpile soils and remobilize equipment at a later date. Samples were analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) diesel-range organics (DRO) by the EPA methods required by the disposal facility ESMI. Soil characterization data was provided in the Corrective Action Plan, dated 22 March 2004.

In general, soils in the excavation area consisted of brown, damp, coarse- to medium-grained sand and gravel, from the ground surface down to about 4.5 feet below ground surface (bgs). Native glacial till soil, consisting of olive gray, fine sand and silt, were encountered at approximately 4.5 feet bgs. Increasing clay content and/or clay layers were observed below approximately 5 ft bgs along with chunks of bedrock ledge. An approximately one foot thick clay layer was present above the bedrock surface.

Groundwater entered the excavation from various seeps in the sidewalls (especially along the building) of the excavation; however, no accumulation of groundwater was observed in the trenches. Stained soil was observed in the fill material in the former UST location and throughout the excavation area. Staining was observed in the smear zone; between three to four feet along the building and deeper in the north trenches. Bedrock was encountered in the excavation between six and ten feet below ground surface.
The excavation consisted of a series of trenches where the soils located in the vadose zone (grade to approximately four feet bgs) that were considered "clean" were excavated to expose the gross petroleum-

contaminated soils at and below the water table. Contaminated soils were excavated to a depth of 6 to 10 feet bgs when bedrock was encountered. Bedrock was shallower than estimated throughout the excavation area. Each trench was backfilled with clean fill after contaminated soils were removed.

ECS screened soil samples for the presence of VOCs using a Thermo 580B portable PID. The PID was calibrated in the field with an isobutylene standard gas to a benzene reference. Soil samples were placed into a polyethylene bag, which was then sealed, agitated, and allowed to equilibrate. The PID probe was inserted into the headspace, and the highest reading was recorded. PID readings were between 7 and 137 parts per million (ppm) at the bottom of the excavation trenches (Figure 3). The average reading was 81 ppm. PID readings from the sidewalls ranged from 42 to 129 ppm, with an average of 63 ppm. ECS conducted headspace readings at the bottom and sidewalls.

The eastern portion of the excavation intersected the water and sewer lines to the auto body shop. The water line was located approximately six feet bgs within saturated contaminated soils. ECS excavated a trench between the water and sewer lines to remove contaminated soil between the lines without compromising the lines; however, contaminated soil was left in place on each side of the water line and sewer lines.

An old 1,000-gallon concrete septic tank was located between the water and sewer lines on the northeastern edge of the excavation area. The tank, which was filled with contaminated groundwater, was punctured during the excavation and contaminated groundwater filled the trench. After the water was evacuated from the trench (see Section 2.5), the old septic tank was removed from the ground. The broken tank was disposed of off-site. ECS contacted the VT DEC for a contract modification to cover the additional costs for removal and disposal of the tank and associated water in a telephone conversation with Gerold Noyes on 1 June 2004.

2.3 SOIL ANALYTICAL RESULTS

Soil samples were collected along each sidewall of the excavation and the residual soils from the bedrock interface (Figure 3). All collected samples from the sidewalls and the bottom of the excavation were screened individually and composited in a ziplock bag for sampling purposes. The bottom and sidewall samples were submitted to Endyne, Inc. for analysis and analyzed for TPH by EPA Method 8015 DRO and VOCs by EPA Method 8021B. The results are presented in Table 1. Analytical laboratory report forms are presented in Appendix B.

The results indicate that residual soil contamination still exists along the sidewalls and bottom of the excavation; however, concentrations do not exceeded EPA Preliminary Remedial Goals (PRGs) for industrial soils. The purpose of the excavation was to remove the grossly contaminated soils in the source area. Contaminated soil was left in place along the south side of the excavation due to the proximity of the building and along the east side of the excavation due to the location of the water and sewer lines.

Petroleum contamination is believed to have traveled into and along the weathered bedrock in the source area, as evidenced by the visual and olfactory presence of petroleum in CB-3 (see Section 3.4).

Table 1 – Summary of Analytical Results for Soil
Samples Collected: 5 May 2004

Well I.D.	Benzene	Toluene	Ethyl-benzene	Xylenes	Total BTEX	MTBE	1,3,5-TMB	1,2,4-TMB	Naph-thalene	TPH
Sidewalls	ND<70.0	ND<70.0	75.6	533	609	ND<70.0	526	1,850	1,750	532
Bottom	ND<85.0	272	758	4,610	5,640	ND<85.0	3,960	13,100	7,560	2,160
PRG	***1,300***	***520,000***	***20,000***	***420,000***	***--***	***160,000***	***70,000***	***170,000***	***190,000***	***--***

Notes: MTBE - methyl tert-butyl ether
ND - None detected at indicated detection limit.
NS - Not Sampled
VOC results given in micrograms per kilograms (µg/kg); TPH results given in milligrams per kilogram (mg/kg).
TMB - trimethyl benzene
TPH - total petroleum hydrocarbons measured in milligrams per liter (mg/Kg)
PRG - Preliminary Remedial Goals for Industrial Soils

2.4 SOIL DISPOSAL

Contaminated soils were transported to Environmental Soils Management, Inc. (ESMI) in Loudon, New Hampshire where 424.66 tons were treated via thermal desorption. Transportation was arranged by ESMI. Certificates of destruction are included in Appendix C.

2.5 EXCAVATION DEWATERING

ECS mobilized a frac tank and carbon treatment system to the site for dewatering purposes. A general permit for discharge from petroleum-related remediation activities (#3-9004) was obtained from the VT DEC Wastewater Management Division on 26 April 2004. No discharge was necessary for the project. Termination of this permit was approved on 14 May 2004 (Appendix D).

The old septic tank, encountered on the northeastern corner of the excavation, was filled with contaminated water from the source area. This tank was punctured during the excavation and the trench was subsequently filled with contaminated water. It was decided on-site that the water from the septic tank should be pumped into the frac tank before treatment and discharge. Approximately 975 gallons of contaminated water were pumped from the excavation trench into the frac tank.

No other water was encountered during the excavation and no additional dewatering activities were necessary. Rather than treat and discharge the water in the frac tank using the carbon units, ECS contracted with EP&S to pump out and properly clean the tank. EP&S disposed of the contaminated liquid. This option was more cost effective than spending the carbon units. Manifest documents pertaining to the disposal are included in Appendix E.

2.6 SITE RESTORATION

Clean imported sand fill was used to backfill the excavation along with stockpiled “clean” soils from the vadose zone. The imported backfill material was provided by Brian Deyo, a local contractor. The imported clean backfill material consisted of mineral soil, free of loam, trash, snow, ice, frost blocks, organics, construction debris or other detrimental materials. Material was properly compacted using a rubber-tire vibratory drum roller. Crushed stone was placed on top of the fill to bring the area up to grade and allow for driving and parking cars until the paving occurs.

2.7 MONITORING WELL REPLACEMENT

Five source-area monitoring wells were destroyed during the excavation and restoration activities (MW-1, MW-2, MW-4, MW-5, and MW-6). ECS installed three replacement wells within the excavation area

once site restoration was complete. The wells were designated MW-1a, MW-5a, and MW-6a and were installed in the approximate place of the corresponding destroyed wells. Boring logs and well construction diagrams are located on Appendix F.

The monitoring wells were installed using direct-push vibratory drilling methods. Monitoring wells were constructed with one-inch diameter polyvinyl chloride (PVC) casing and factory-slotted 0.010-inch slot screen. The tops of the screen sections were set approximately two feet above the ground surface. Sections of solid PVC riser were added to bring the tops of the well casings to approximately 0.5 feet bgs. Clean silica #1 filter sand was placed in the borehole annulus around each well approximately 1.5 feet above the slotted interval. A granular bentonite seal, approximately 0.5 feet thick, was set above the sand pack and the remainder of the annular space was backfilled with fill material. Each well was protected at the surface with a flush mounted roadbox.

Soil samples were not collected for visual soil characterization or PID screening, as the wells will be installed within the fill material of the excavation. The newly installed monitoring wells were developed following installation using a bailer and dropline. Well development water was returned to the ground surface in the vicinity of the well.

2.8 BOOM REPLACEMENT

ECS removed the existing booms from the swale and catch basin CB-3 and placed them in a 55-gallon drum for eventual off-site disposal. The boom in CB-3 was highly saturated with fuel oil. Booms were replaced in both locations on 5 May 2004.

3.0 SEMI-ANNUAL MONITORING

3.1 GROUNDWATER CHARACTERISTICS

Based on the hydrogeologic data, the groundwater in the unconfined surficial aquifer at the site appears to flow generally north at the auto body shop then turns eastward toward the Winooski River. The average horizontal hydraulic gradient is approximately 20 percent at the auto body shop and 4 percent between the dealership and the swale. Groundwater at the part's department flows generally southeast toward the Winooski River at an average horizontal hydraulic gradient of 4 percent. The vertical groundwater flow components at the site, and the hydraulic relationship between the shallow unconfined aquifer and the bedrock aquifer, are currently unknown.

Fluid levels were measured in the monitoring wells on 2 June 2004 to calculate the groundwater flow direction. Depth to groundwater in the on-site monitoring wells ranged from at the ground surface (MW-16) to 6.44 feet (MW-6a) below top-of-casing. Static water-table elevations were computed for each monitoring well by subtracting the measured depth-to-water readings from the surveyed top-of-casing elevations, which are relative to a previously set datum of 100.77 feet. Water-level measurements and elevation calculations are presented in Table 2. A groundwater-table contour map was prepared using these data (Figure 4).

3.2 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected from fifteen selected monitoring wells for laboratory analysis via EPA Method 8021B and EPA Method 8015 DRO on 2 June 2004 (Figure 4). The wells from the part's department were re-designated PD-1 through PD-6 to avoid confusion with the monitoring wells at the auto body shop. Monitoring well MW-3 was not sampled due to the presence of free-phase product (see Section 3.3). Monitoring well MW-7 was dry during the sampling event. Monitoring wells MW-9, MW-11, MW-13, MW-14, MW-16, MW-20, PD-1, and PD-6 were not sampled due to the limited number of samples specified in the approved scope of work dated 30 January 2004.

Vermont Groundwater Enforcement Standards[2] were exceeded for one or more petroleum-related compounds in 10 of the 15 sampled wells. Four wells were sampled in the vicinity of the soil excavation. MW-6A, located between the water and sewer lines, contained elevated concentrations of all the tested compounds and exceeded VGESs for benzene, methyl tertiary butyl ether (MTBE), 1,3,5-trimethylbenzene (1,3,5-TMB), 1,2,4-trimethylbenzene (1,2,4-TMB), and naphthalene. MW-1A, MW-5A exceeded VGESs for 1,3,5-TMB, 1,2,4-TMB, and naphthalene. No VOC's were detected in the MW-8 sample, located just east of the excavation area.

The detection of MTBE, a gasoline additive, in the source area is unusual. It is possible that the water in the old septic tank contained gasoline constituents. The highest concentrations of BTEX and MTBE (not typically high in fuel oil releases) are in MW-6A, which was relocated between the water and sewer lines

[2] Vermont Groundwater Enforcement Standards (VGESs) for eight petroleum related VOCs are as follows: benzene - 5 µg/L; toluene — 1,000 µg/L; ethylbenzene - 700 µg/L; xylenes — 10,000 µg/L.; MTBE, a gasoline additive, - 40 µ/L; naphthalene — 20 µg/L; 1, 2, 4-trimethylbenzene — 5 µg/L; and 1, 3, 5-trimethylbenzene —4 µg/L.

just upgradient of the ruptured old septic tank. It is also possible that fuel delivery trucks contained gasoline compounds and these were released during delivery.

No VOCs were detected in on-site monitoring wells MW-8, MW-10, and MW-12 and off-site monitoring wells MW-15 and MW-18. TPH values were 4.3 mg/L in MW-10 and 2.05 mg/L in MW-18.

In the swale area, VGESs for 1,2,4-TMB were exceeded in the MW-17 and MW-19 samples. MW-17 is located at the culvert discharge area and MW-19 is located south of the culvert discharge. TPH values ranged from 0.70 to 379 mg/L in the monitoring wells associated with the auto body shop. The highest concentrations were observed in the source area monitoring wells. Analytical results are included in Table 3 and laboratory report forms are included in Appendix G. Time-series graphs showing historical data are presented in Appendix H.

The monitoring wells at the parts department (PD-2 through PD-6 and DEC-1) exceeded VGESs in benzene, 1,3,5-TMB, 1,2,4-TMB, and naphthalene. PD-3 and PD-5 also exceeded standards for ethylbenzene.

Groundwater samples obtained at the parts department were analyzed for fuel identification, as opposed to the TPH analysis, which is quantitative instead of qualitative. All of the samples collected at the parts department monitoring wells were identified as gasoline. The gasoline-related compounds in these samples are likely from two gasoline USTs that were removed in 1988. Monitoring well DEC-1 is located in the excavation area of the gasoline USTs and the dispenser pumps were located upgradient of PD-1. The signature of gasoline in these samples overshadows any potential signature of fuel oil present in the groundwater at this location.

Prior to groundwater sample collection, the monitoring wells were purged with a bailer and then sampled using disposable bailers and dropline. Purge water was discharged directly to the ground in the vicinity of each well. A trip blank and a duplicate sample were collected to ensure that adequate quality assurance/quality control (QA/QC) standards were maintained. All field procedures were conducted in accordance with ECS standard protocols.

All samples were transported under chain-of-custody in an ice-filled cooler to Endyne, Inc. of Williston, Vermont, where they were analyzed for the possible presence of VOCs by EPA Method 8021B and TPH by EPA Method 8015 DRO. A fuel identification was requested from the wells sampled in the vicinity of the part's department.

No VOCs were detected in the trip blank. Analytical results of the duplicate sample, collected from MW-1A and designated as MW-2, were within 35 percent of the sample results. All laboratory control standards including matrix spikes, method blanks, and quality control analysis were within established laboratory acceptance limits. Table 3 includes the QA/QC analytical results and relative percent difference (RPD) calculations. The laboratory analytical reports are presented in Appendix G.

3.3 FREE PRODUCT MONITORING AND RECOVERY

ECS conducted free product recovery at MW-3 on 2 June 2004 during the sampling event. Approximately two inches of product were measured in MW-3 and 40 milliliters (mL) were recovered. The recovered product was containerized on-site for eventual offsite disposal.

3.4 CATCH BASIN SAMPLING AND ANALYSIS

One catch basin, designated as CB-3, was sampled on 2 June 2004 and analyzed for VOCs via EPA Method 8021B and TPH via EPA Method 8015. There was a petroleum odor and sheen on the water entering the catch basin. A 40-ml vial was lowered into the standing water in the catch basin and used to fill each sample vial. VGESs were exceeded for benzene, 1,3,5-TMB, 1,2,4-TMB, and naphthalene. Results are summarized in Table 3. The laboratory analytical reports are presented in Appendix G.

3.5 SURFACE WATER SAMPLING AND ANALYSIS

Two surface water samples (SW-1 and SW-2) were collected along the swale located across U.S. Route 2 from the site on 2 June 2004 (Figure 2). Analytical results are summarized in Table 3. Sample SW-1 was obtained from the culvert discharge area and analyzed for VOCs via EPA Method 8021B and TPH via EPA Method 8015. The SW-1 sample detected 1,2,4-TMB and naphthalene. The SW-2 sample was collected approximately ten feet north of MW-18, downgradient of the boom installed in the swale. The SW-2 sample detected 1,2,4-TMB. Water Quality Criteria (WQC) standards for the protection of human health in Class B waters were not exceeded in any of the samples obtained from the swale area. The laboratory analytical reports are presented in Appendix G.

4.0 CONCLUSIONS

Based on the results of the contaminated soil excavation and subsequent monitoring event, ECS concludes the following:

- Approximately 283 cubic yards of contaminated soil were removed from the source area during the first week of May 2004. Free-product is only detected in MW-3, located against the auto body shop.

- Residual soil contamination was detected in the composite bottom and sidewall samples collected from the excavation at concentrations below the EPA PRGs. Contaminated soil was left in place along the south side of the excavation due to the proximity of the building and along the east side of the excavation due to the location of the water and sewer lines. Petroleum contamination is believed to have traveled into and along the weathered bedrock in the source area.

- Based on the hydrogeologic data, the groundwater in the unconfined surficial aquifer at the auto body shop appears to flow generally north and then shifts eastward toward the Winooski River. Groundwater at the part's department flows generally southeast toward the Winooski River.

- Groundwater samples were collected from fifteen selected site monitoring wells. VGESs were exceeded for one or more petroleum-related compounds in 10 of the 15 sampled wells.

- Four wells were sampled in the vicinity of the soil excavation. MW-6A, located between the water and sewer lines, contained VGES exceedances for five compounds. MW-1A, MW-5A exceeded VGESs for three compounds. No VOC's were detected in the MW-8 sample, located just east of the excavation area.

- No VOCs were detected in on-site monitoring wells MW-10 and MW-12.

- VGESs were exceeded for benzene, 1,3,5-TMB, 1,2,4-TMB, and naphthalene in catch basin sample CB-3.

- In the swale area, VGESs for 1,2,4-TMB were exceeded in the MW-17 and MW-19 samples. No VOCs were detected in off-site monitoring wells MW-15 and MW-18.

- The monitoring wells at the parts department (PD-2 through PD-6 and DEC-1) exceeded four or more VGESs. All of the samples collected at the parts department monitoring wells were identified as gasoline.

- Two surface water samples (SW-1 and SW-2) were collected along the swale located across U.S. Route 2. WQC standards were not exceeded in any of the samples obtained from the swale area.

5.0 RECOMMENDATIONS

Based on the conclusions stated above, ECS recommends the following:

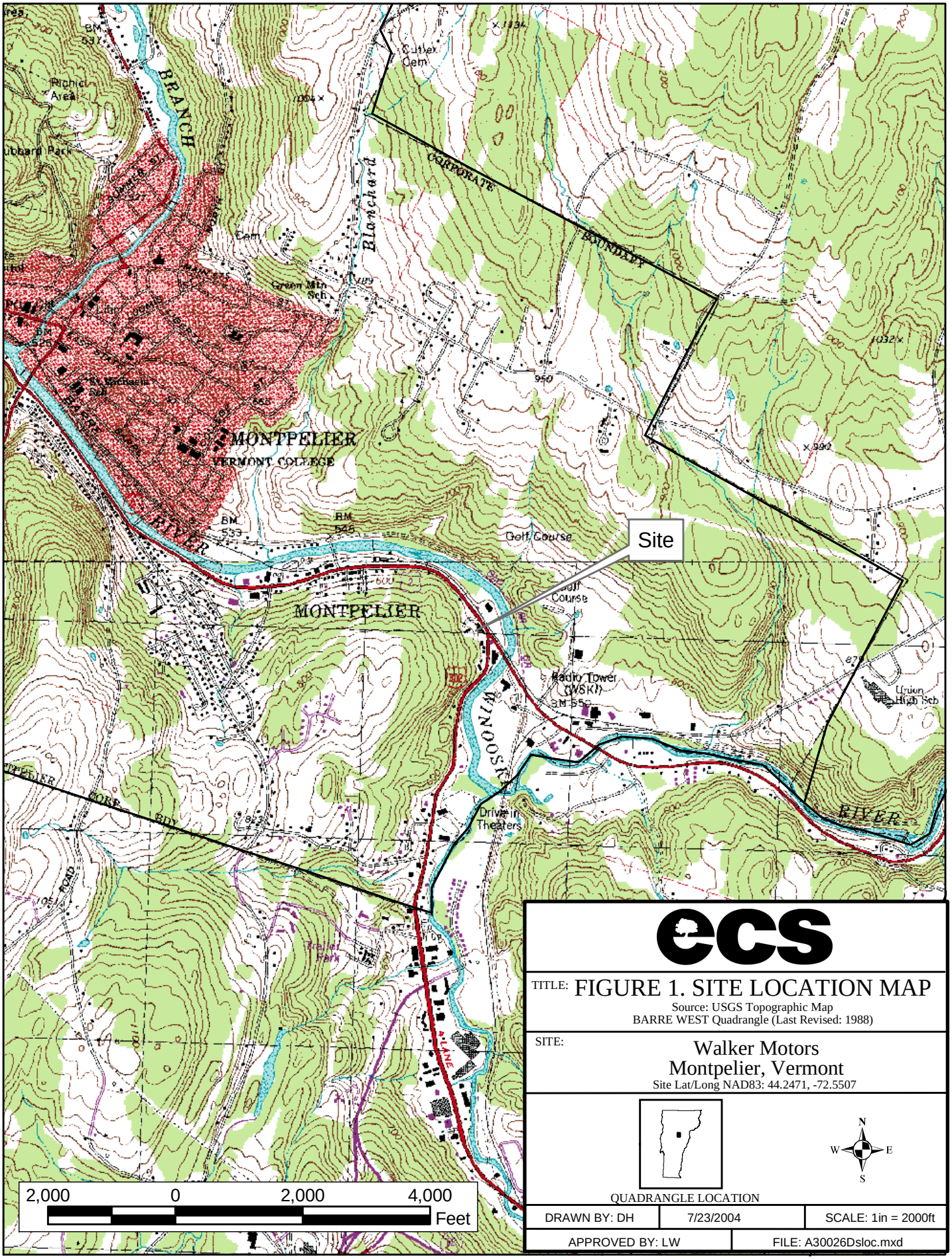
1. Semi-annual monitoring should be conducted this fall, as scheduled in the Corrective Action Plan. Replacement of booms in the swale and the catch basin (CB-3) should continue on a quarterly basis.

2. Free product recovery should be conducted at MW-3 on a monthly basis. The extent of contamination under the building is not known.

3. A semi-annual report should be submitted with the results of the quarterly boom replacement conditions and the results of the fall monitoring event and monthly product measurements. The report should contain appropriate figures, time-series graphs, and laboratory reports.

4. Based on the results of the fall report, additional monitoring inside the building may be warranted to further define the extent of contamination. If conditions do not improve with MW-3, a larger diameter well may be needed to perform enhanced product recovery (i.e. absorbent socks, oxygen injection, product recovery pumps).

FIGURES



ecs

TITLE: FIGURE 1. SITE LOCATION MAP

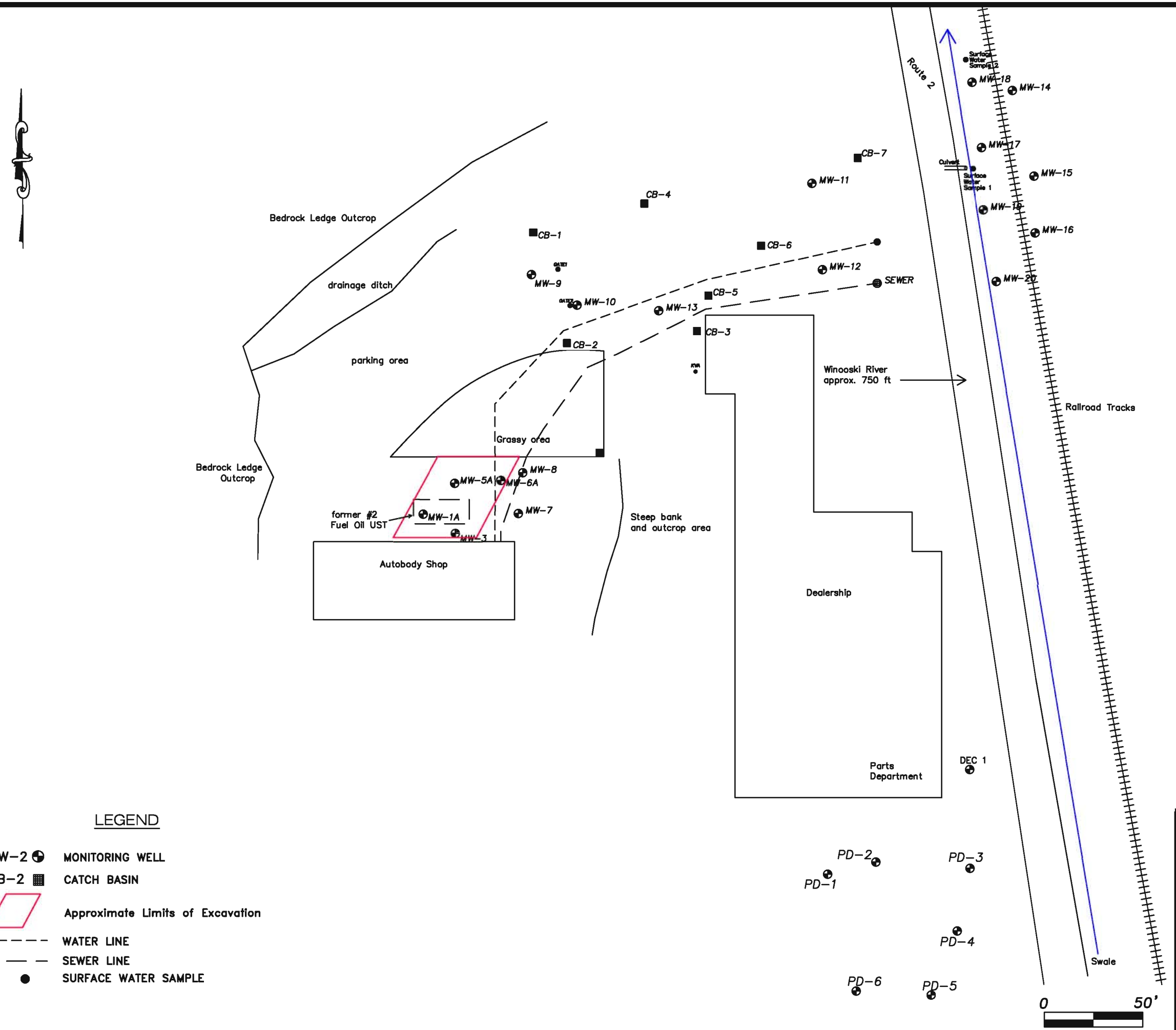
Source: USGS Topographic Map
BARRE WEST Quadrangle (Last Revised: 1988)

SITE: Walker Motors
Montpelier, Vermont
Site Lat/Long NAD83: 44.2471, -72.5507

QUADRANGLE LOCATION

N
W E
S

DRAWN BY: DH	7/23/2004	SCALE: 1in = 2000ft
APPROVED BY: LW	FILE: A30026Dsloc.mxd	



ALL LOCATIONS ARE APPROXIMATE

LEGEND

MW-2 MONITORING WELL

CB-2 CATCH BASIN

Approximate Limits of Excavation

WATER LINE

SEWER LINE

SURFACE WATER SAMPLE

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FIGURE 2.

SITE MAP

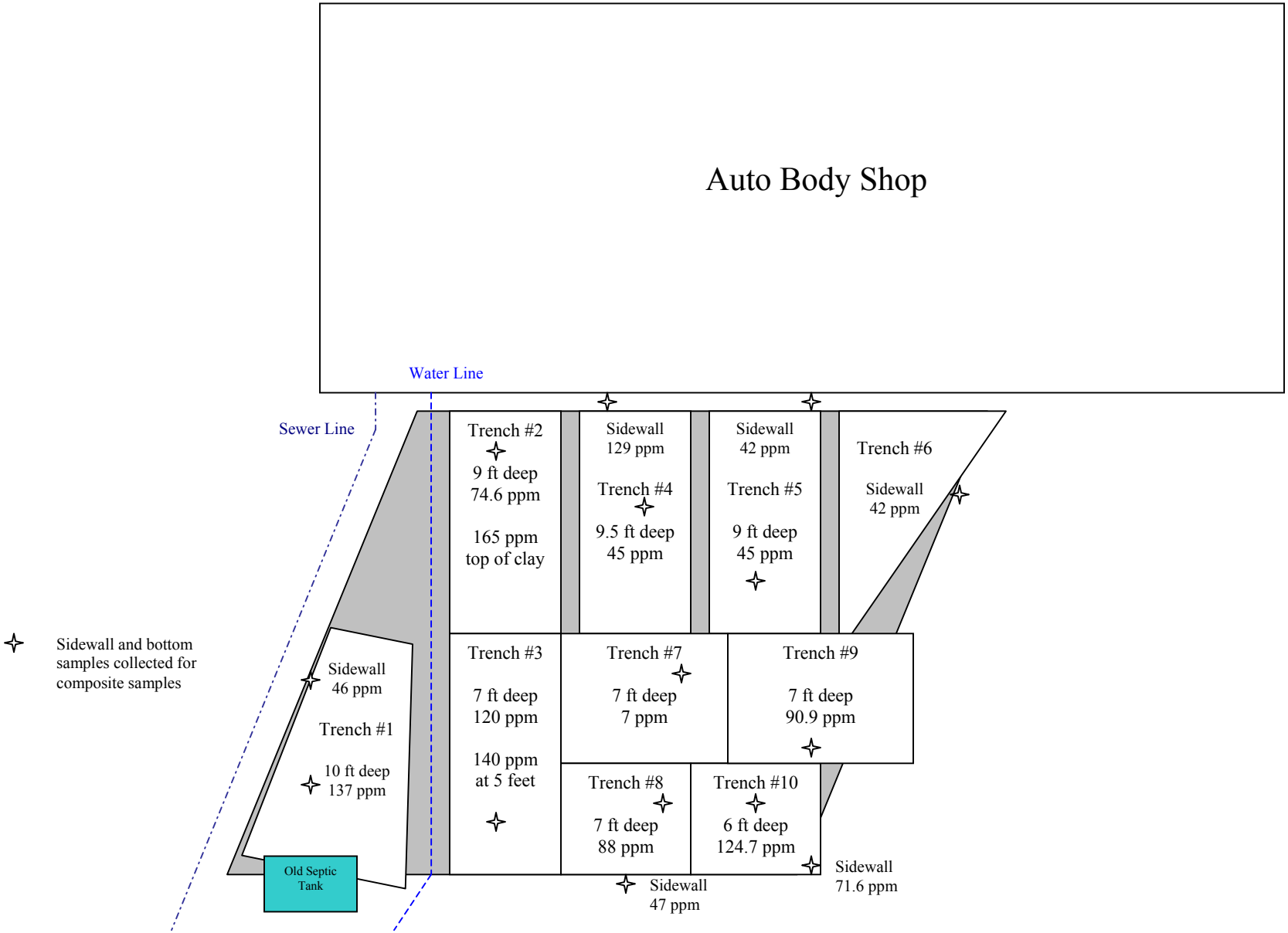
With Monitoring Well Locations and Excavation Area

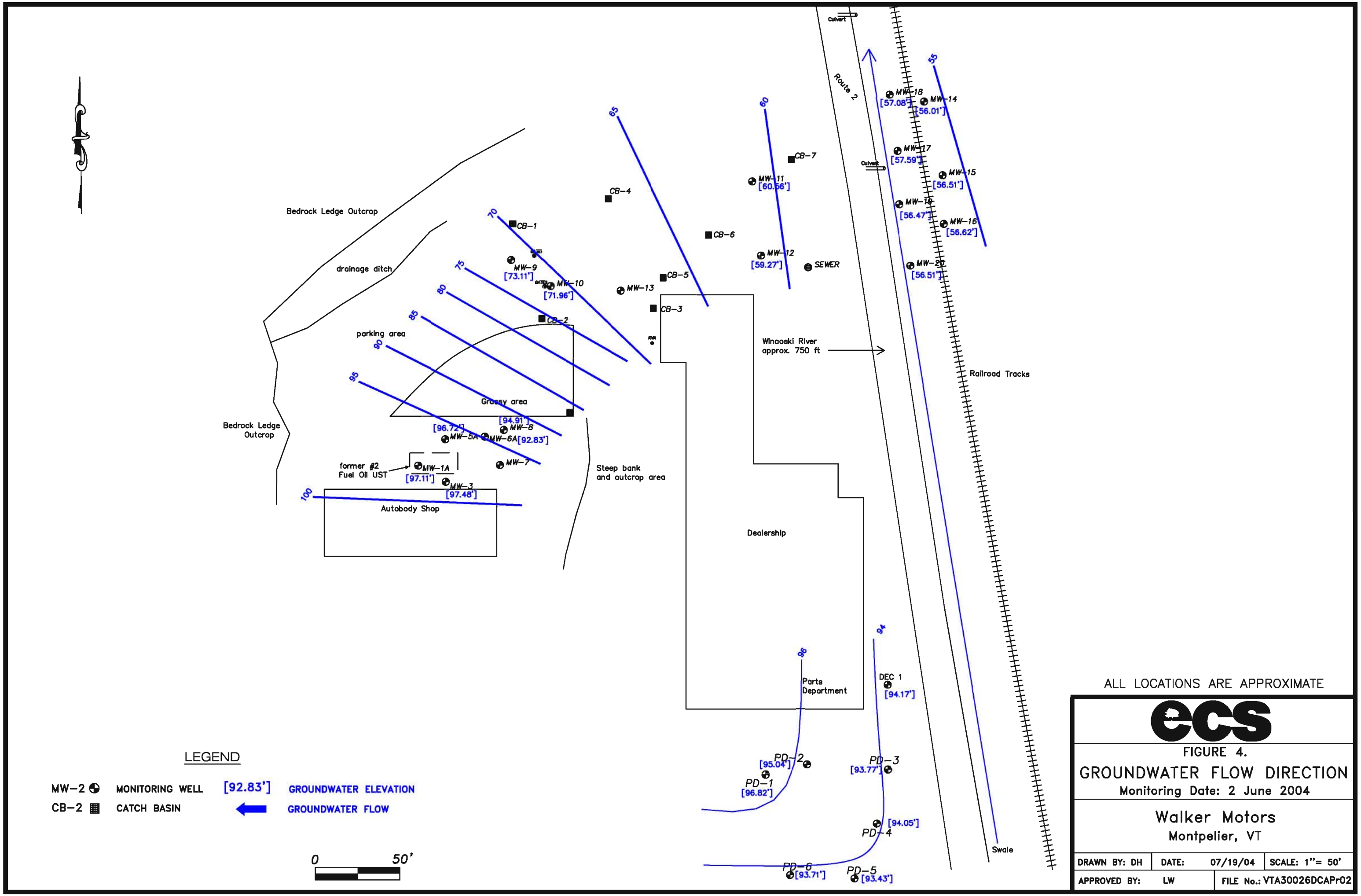
Walker Motors

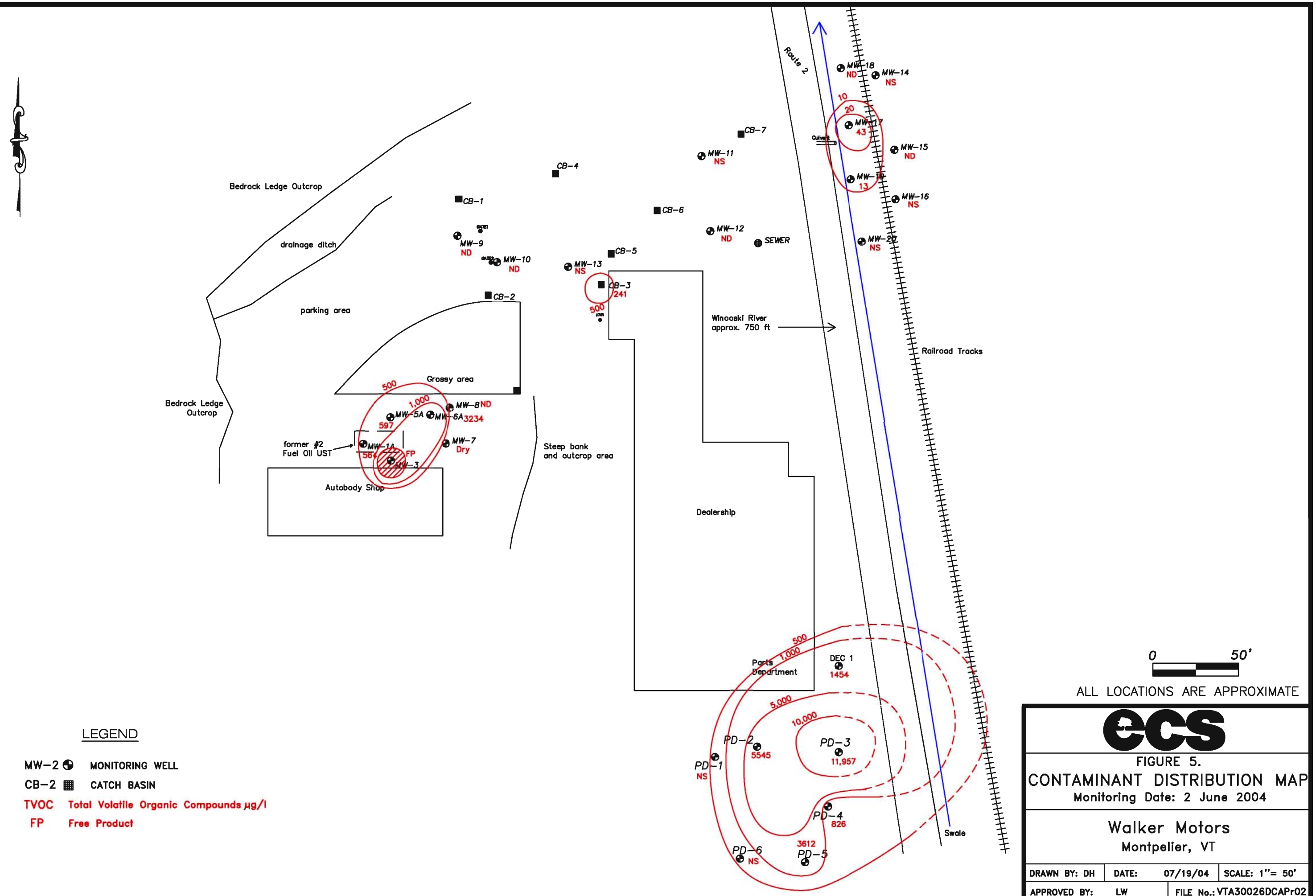
Montpelier, VT

DRAWN BY: DH	DATE: 07/19/04	SCALE: 1"= 50'
APPROVED BY: LW	FILE No.: VTA30026DCAPr02	

Figure 3 – Site Sketch of Excavation
Walker Motors
May 2004




Bedrock Ledge Outcrop
drainage ditch
parking area
Grassy area
Bedrock Ledge Outcrop
former #2 Fuel Oil UST
Autobody Shop
Steep bank and outcrop area
Winooski River approx. 750 ft
Route 2
Culvert
Culvert
Railroad Tracks
Dealership
Parts Department
Swale
CB-1
CB-2
CB-3
CB-4
CB-5
CB-6
CB-7
MW-9 [73.11']
MW-10 [71.96']
MW-13
MW-11 [60.56']
MW-12 [59.27']
SEWER
MW-18 [57.08']
MW-14 [56.01']
MW-17 [57.59']
MW-15 [56.51']
MW-19 [56.47']
MW-16 [56.62']
MW-20 [56.51']
[94.91']
MW-8
[96.72']
MW-5A
MW-6A [92.83']
MW-7
MW-1A [97.11']
MW-3 [97.48']
DEC 1 [94.17']
PD-2 [95.04']
PD-1 [96.82']
PD-3 [93.77']
[94.05']
PD-4
PD-6 [93.71']
PD-5 [93.43']
55
60
65
70
75
80
85
90
95
100
94
96
LEGEND
MW-2 MONITORING WELL
CB-2 CATCH BASIN
[92.83'] GROUNDWATER ELEVATION
GROUNDWATER FLOW
0
50'
ALL LOCATIONS ARE APPROXIMATE
ecs
FIGURE 4.
GROUNDWATER FLOW DIRECTION
Monitoring Date: 2 June 2004
Walker Motors
Montpelier, VT
DRAWN BY: DH
DATE: 07/19/04
SCALE: 1"= 50'
APPROVED BY: LW
FILE No.: VTA30026DCAPr02



ecs

FIGURE 5.

CONTAMINANT DISTRIBUTION MAP

Monitoring Date: 2 June 2004

Walker Motors

Montpelier, VT

DRAWN BY: DH	DATE: 07/19/04	SCALE: 1"= 50'
APPROVED BY: LW	FILE No.: VTA30026DCAPr02	

TABLES

TABLE 2
GROUNDWATER ELEVATION CALCULATIONS

Walker Motors
Montpelier, VT

Monitoring Date: 2 June 2004

Well I.D.	Top of Casing Elevation	Depth to Product	Depth to Water	Product Thickness	Corrected Depth to Water	Water Table Elevation
MW-1a	100.11	-	3.00	-	-	97.11
MW-3	100.77	-	3.43	0.17	3.29	97.48
MW-5a	99.45	-	2.73	-	-	96.72
MW-6a	99.27	-	6.44	-	-	92.83
MW-7	99.83	-	Dry	-	-	Dry
MW-8	99.18	-	4.27	-	-	94.91
MW-9	79.08	-	5.97	-	-	73.11
MW-10	75.93	-	3.97	-	-	71.96
MW-11	64.45	-	3.89	-	-	60.56
MW-12	63.83	-	4.56	-	-	59.27
MW-13	70.54	-	NA	-	-	NA
MW-14	56.91	-	0.90	-	-	56.01
MW-15	57.06	-	0.55	-	-	56.51
MW-16	56.62	-	0.00	-	-	56.62
MW-17	59.25	-	1.66	-	-	57.59
MW-18	60.11	-	3.03	-	-	57.08
MW-19	58.25	-	1.78	-	-	56.47
MW-20	58.36	-	1.85	-	-	56.51
Monitoring wells at the Parts Department - Surveyed with a different arbitrary datum of 100.						
DEC-1	99.37	-	5.20	-	-	94.17
PD-1	101.03	-	4.21	-	-	96.82
PD-2	99.93	-	4.89	-	-	95.04
PD-3	98.82	-	5.05	-	-	93.77
PD-4	98.67	-	4.62	-	-	94.05
PD-5	98.41	-	4.98	-	-	93.43
PD-6	99.38	-	5.67	-	-	93.71

Notes:

All values for the auto body shop reported in feet relative to a datum of 100.77 feet based on a previous survey.

NA = Not Available

MW-2 and MW-4 were destroyed during the excavation activities.

TABLE 3
Summary of Analytical Results

Walker Motors
Montpelier, VT

Sampling Date: 2 June 2004

Well I.D.	Benzene	Toluene	Ethyl-benzene	Xylenes	Total BTEX	MTBE	1,3,5-TMB	1,2,4-TMB	Naph-thalene	TVOC	TPH
MW-1A	ND<5.0	**14.8**	**31.1**	**204**	**250**	**5.1**	**72.6**	**167**	**72.0**	**567**	**58.8**
MW-2	destroyed during excavation										
MW-3	FP	FP	FP	FP	--	FP	FP	FP	FP	FP	FP
MW-4	destroyed during excavation										
MW-5A	ND<5.0	ND<5.0	**29.5**	**194**	**224**	ND<5.0	**96.1**	**214**	**63.5**	**597**	**114**
MW-6A	**95.6**	**181**	**181**	**1190**	**1648**	**87.2**	**347**	**855**	**297**	**3234**	**486**
MW-7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	ND	ND<0.40
MW-9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	ND	**4.3**
MW-11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	ND	ND<0.40
MW-13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	ND	ND<0.40
MW-16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	ND<1	ND<1	ND<1	ND<2	ND	ND<1	**2.4**	**24.9**	**15.2**	**43**	**0.70**
MW-18	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	ND	**2.05**
MW-19	ND<5	ND<5	ND<5	ND<10	ND	ND<5	ND<5	**13.2**	ND<5	**13**	**11.30**
MW-20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PD-1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PD-2	**314**	ND<50.0	**406**	**2330**	**3050**	ND<50.0	**626**	**1490**	**379**	**5545**	Gasoline
PD-3	**326**	**73.8**	**1480**	**5300**	**7180**	ND<50.0	**1100**	**3200**	**477**	**11957**	Gasoline
PD-4	**120**	**29.7**	**192**	**174**	**516**	**12.1**	**28.9**	**225**	**44.2**	**826**	Gasoline
PD-5	**272**	ND<50.0	**836**	**981**	**2089**	ND<50.0	**112**	**1200**	**211**	**3612**	Gasoline
PD-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DEC-1	**10.8**	ND<10.0	**275**	**517**	**803**	ND<10.0	**36.9**	**523**	**91.0**	**1454**	Gasoline
CB-3	**6.8**	ND<5	ND<5	**47.2**	**54**	**6.5**	**28.3**	**101**	**51.2**	**241**	**63.5**
Duplicate (MW-1A)	**5.7**	**18.7**	**36.0**	**241**	**301**	ND<5	**78.1**	**185**	**90.0**	**655**	--
% difference	--	23	15	17	19	--	7	10	22	--	--
Trip Blank	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	--	--
VGES	***5***	***1,000***	***700***	***10,000***	***--***	***40***	***4***	***5***	***20***	***--***	***--***
SW-1	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	**1.4**	**1.2**	**3**	**0.64**
SW-2	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	**1.1**	ND<1	**1**	**0.53**
SW-3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WQC	***1.2***	***6,800***	***3,100***	***--***	***--***	***--***	***--***	***--***	***--***		***--***

Notes:
MTBE - methyl tert-butyl ether
ND - None detected at indicated detection limit.
NS - Not Sampled
Results given in micrograms per liter (µg/L).
TMB - trimethyl benzene
TPH - total petroleum hydrocarbons measured in milligrams per liter (mg/L)
VGES - Vermont Groundwater Enforcement Standards, shaded area denotes exceedence of VGES
FP - Free Product
WQC - Water Quality Criteria for the protection of human health in Class B waters.
Duplicate sample, designated as MW-2, is a blind duplicate sample of MW-1a

APPENDIX A

STRUCTURAL EVALUATION FROM CROSS CONSULTING ENGINEERS

CROSS CONSULTING ENGINEERS, P.C.

Peter H. Cross, P.E.
President

103 Fairfax Road, St. Albans, Vermont 05478-6271 • Tel. 802-524-2113 • Fax 802-524-9681
e-mail: pcross@crossconsultingengineers.com

April 14, 2004

ECS Marin
65 Millet Street, Suite 301
Richmond, VT 05477

Attn: Laura Woodard

Subject: Walker Motors, Montpelier VT File: 04014/7

Dear Ms. Woodard:

On March 24th, I met with you at the Walker Motor's auto body repair building in Montpelier. At this site there are contaminated soils to be removed below the anticipated depth of foundation for this building. You requested our services because the structure is on a hillside, requiring the recommendations of a structural engineer.

The auto body building is on a hill above and behind the dealership's main sales and service building. The contaminated soils are located on the north side of the building, under the existing parking and driveway. Apparently, a fuel oil tank leaked and the soil is contaminated to a depth of 10-12 feet.

You requested our opinion on how to remove as much soil, as close to the building as possible without compromising the integrity of the building, now or any time in the future. There are a couple of options that are available.

The first option involves excavating up to the face of the foundation wall, down to the top of the footing elevation. Then, excavating can continue deeper at a 45 degree angle away from the footing to maintain the footing's bearing influence on the soil. This option is only acceptable if no more than 10 linear feet of wall is exposed at one time. After the 10 linear feet are excavated, this soil must be replaced with compacted structural fill to driveway level, prior to the next 10 linear feet being excavated. On each side of the excavation, the existing soil must not be excavated, keeping the original surface. If soil conditions are poor or cause this option to be less workable, two other options are available.

A second option involves installing sheet piling close to the building. The installation of sheet piling close to the building may damage the building's foundation or may potentially crack the masonry walls. Also, because the limit of excavation is relatively shallow, 10- 12 feet, the actual quantity of soil removed adjacent to the building may not be much greater.

Third, excavation can occur adjacent to the building, provided 10 horizontal feet of soil is left at the ground level away from the building. This option limits the quantity of soil to be removed.

The last item we reviewed on site was the condition of the north side of the building itself. Visible portions of the foundation, interior floor slab and masonry block walls were observed. A variable height of concrete foundation was visible with no signs of cracks except normal, hairline, shrinkage cracks. The masonry wall which extends to the roof was in good condition on both the exterior and interior faces. Even at the window and door locations, no cracks were apparent. Similarly the interior slab on grade was in good condition.

CCE recommends removing the soil no further than the limits shown on the attached sketch to be confident that the building will not be affected. As noted on the sketch, this approach assumes that the soils are cohesive and have a minimum of flowing groundwater. If questionable soil conditions are present, please contact me for another visit and follow-up recommendations.

Sincerely,

CROSS CONSULTING ENGINEERS, P.C.

By
Brian A. Douglas, P.E.

APPENDIX B

LABORATORY ANALYTICAL RESULTS FOR SOILS IN THE EXCAVATION AREA

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

ECS Marin	PROJECT: Walker Motors Parts Dept.
65 Millet Street	ORDER ID: 29370
Richmond, VT 05477	RECEIVE DATE: May 6, 2004
Attn: Laura Woodard	REPORT DATE: May 18, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: ECS Marin
PROJECT: Walker Motors Parts Dept.
REPORT DATE: May 18, 2004

ORDER ID: 29370
DATE RECEIVED: May 6, 2004
SAMPLER: LW
ANALYST: 725

Ref. Number: 230137 | Site: Bottom | Date Sampled: May 5, 2004 | Time: 9:00 AM

Parameter	Result	Unit	Method	Analysis Date
MTBE	< 85.0	ug/kg, dry	SW 8260	5/7/04
Benzene	< 85.0	ug/kg, dry	SW 8260	5/7/04
Toluene	272.	ug/kg, dry	SW 8260	5/7/04
Ethylbenzene	758.	ug/kg, dry	SW 8260	5/7/04
Xylenes, Total	4,610.	ug/kg, dry	SW 8260	5/7/04
1,3,5 Trimethyl Benzene	3,960.	ug/kg, dry	SW 8260	5/7/04
1,2,4 Trimethyl Benzene	13,100.	ug/kg, dry	SW 8260	5/7/04
Naphthalene	7,560.	ug/kg, dry	SW 8260	5/7/04
UIP's	> 10.		SW 8260	5/7/04
Surrogate 1	87.%	%	SW 8260	5/7/04
Percent Solid	90.	%	SW 8260	5/7/04

Ref. Number: 230138 | Site: Sidewalls | Date Sampled: May 5, 2004 | Time: 9:10 AM

Parameter	Result	Unit	Method	Analysis Date
MTBE	< 70.0	ug/kg, dry	SW 8260	5/7/04
Benzene	< 70.0	ug/kg, dry	SW 8260	5/7/04
Toluene	< 70.0	ug/kg, dry	SW 8260	5/7/04
Ethylbenzene	75.6	ug/kg, dry	SW 8260	5/7/04
Xylenes, Total	533.	ug/kg, dry	SW 8260	5/7/04
1,3,5 Trimethyl Benzene	526.	ug/kg, dry	SW 8260	5/7/04
1,2,4 Trimethyl Benzene	1,850.	ug/kg, dry	SW 8260	5/7/04
Naphthalene	1,750.	ug/kg, dry	SW 8260	5/7/04
UIP's	> 10.		SW 8260	5/7/04
Surrogate 1	107.%	%	SW 8260	5/7/04
Percent Solid	89.	%	SW 8260	5/7/04

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

59265

Special Reporting Instructions: Special Pricing PdF please

Project Name: VTA3-0026D Walker Motors	Reporting Address: 65 Millet St Richmond VT	Billing Address: ← Same.
Endyne Order ID: (Lab Use Only) 29370 — 2 -O, -I, -S	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Bottom	Soil		X	5/5/04 0900	2	voa 4oz		19, 23	meOH	
	Sidewalls	Soil		X	0910	2	voa 4oz		↓	none ↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L Woodard	5/5/04 1015	(CP)	5/6/04 12:12pm	Florucci	5/6/04 2:35

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

ECS Marin	PROJECT: Walker Motors Parts Dept.
65 Millet Street	ORDER ID: 29370
Richmond, VT 05477	RECEIVE DATE: May 6, 2004
Attn: Laura Woodard	REPORT DATE: May 18, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: ECS Marin
PROJECT: Walker Motors Parts Dept.
REPORT DATE: May 18, 2004

ORDER ID: 29370
DATE RECEIVED: May 6, 2004
SAMPLER: LW
ANALYST: 333

Ref. Number: 230137 | Site: Bottom | Date Sampled: May 5, 2004 | Time: 9:00 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	2,160.	mg/Kg	SW 8015B	5/11/04

Ref. Number: 230138 | Site: Sidewalls | Date Sampled: May 5, 2004 | Time: 9:10 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	532.	mg/Kg	SW 8015B	5/11/04

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

59265

Special Reporting Instructions: Special Pricing PdF please

Project Name: VTA3-0026D Walker Motors	Reporting Address: 65 Millet St Richmond VT	Billing Address: ← Same.
Endyne Order ID: (Lab Use Only) 29370 — 2 -O, -I, -S	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Bottom	Soil		X	5/5/04 0900	2	voa 4oz		19, 23	meOH	
	Sidewalls	Soil		X	0910	2	voa 4oz		↓	none ↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L Woodard	5/5/04 1015	(CP)	5/6/04 12:12pm	Florucci	5/6/04 2:35

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

APPENDIX C

ESMI CERTIFICATES OF DESTRUCTION

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211938
Date : 5/5/2004

Loudon, NH 03307

Max Acceptable Soil: 800.00

Customer: EC850
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 389.40

Trucker:
HANSON HANSON TRUCKING

Gross : 82400 Scale 1 In 11:03:23AM
Tare : 31420 STORED Out

Net : 50980 lb
25.490

F002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H.
57 International Drive

(603)783-0228

Ticket No : 211939
Date : 5/5/2004

Loudon, NH 03307

Max Acceptable Soil: 800.00

Customer: EC350
EC3 MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 424.66

Trucker.
DG03 D&G ENTERPRISES, LLC #3

Gross : 103780 Scale 1 In 11:04:43AM
Tare : 33260 STORED Out

Net : 70520 lb
35.260

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $
Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211935
Date : 5/5/2004

Loudon, NH 03307

Max Acceptable Soil. 800.00

Customer: EC850
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 363.91

Trucker:
SAC12 SCOT CHAMBERS TRUCK #12

Gross : 81400 Scale 1 In 10:24:15AM
Tare : 38400 STORED Out

Net : 43000 lb
21.500

F002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver: SAC

Remarks: Thank You For Your Business

Material $
Delory $
Misc $
Tax $

Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211934
Date : 5/5/2004

Loudon, NH 03307

Max. Acceptable Soil: 800.00

Customer: EC350
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No : 3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 342.41

Trucker
DEY1 EARTH SOLUTIONS

Gross : 90000 Scale 1 In 10:07:33AM
Tare : 33000 STORED Out

Net : 57000 lb
28.540

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $
Total $

: of N.H.
International Drive

(603) 783-0228

Ticket No : 211933
Date : 5/5/2004

ion, NH 03307

Max Acceptable Soil: 800.00

:omer: EC850
MARIN
MILLET STREET
:TE # 301
:HMOND, VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 313.87

---

cker:
)4 D&G ENTERPRISES, LLC #4

Gross : 86360 Scale 1 In 9:48:52AM
Tare : 31340 STORED Out

Net : 55020 lb
27.510

02 #2 FUEL OIL

---

igh Master: SUZANNE

:iver:

:marks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211922
Date : 5/4/2004

Loudon, NH 03307

Max Acceptable Soil: 300.00

Customer: ECS50
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No : 3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST
MONTPELIER VT 05602
Running Tonnage: 253.94

Trucker:
DG04 D&G ENTERPRISES, LLC #4

Gross : 86620 Scale 1 In 4:36:22PM
Tare : 31340 STORED Out

Net : 55280 lb
27.640

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $
Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211922
Date : 5/4/2004

Loudon, NH 03307

Max Acceptable Soil: 800.00

Customer: ECS50
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No : 3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 226.36

Trucker:
PRES71 J. PREST ENTERPRISES #1

Gross : 97760 MAN WT In 4:39:41PM
Tare : 32920 STORED Out

Net : 64840 lb
32.420

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H.
67 International Drive

(603)783-0228

Ticket No : 211919
Date : 5/4/2004

Loudon,NH 03307

Max Acceptable Soil: 800.00

Customer: EC850
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND,VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 195.81

Trucker:
HANSON HANSON TRUCKING

Gross : 82580 MAN WT In 4:12:16PM
Tare : 31420 STORED Out

Net : 51160 lb
25.580

F002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211888
Date : 5/4/2004

Loudon, NH 03307

Max Acceptable Soil: 800.00

Customer: EC850
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No : 3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 147.68

Trucker:
PRESTI J. PREST ENTERPRISES #1

Gross : 104100 Scale 1 In 11:32:49AM
Tare : 32920 STORED Out

Net : 71180 lb
35.590

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

II of N.H.
International Drive

(603) 783-0228

Ticket No : 211881
Date : 5/4/2004

idon, NH 03307

Max Acceptable Soil: 800.00

---

stomer: EC350

Job No : 3771

3 MARIN
MILLET STREET
ITE # 301
CHMOND, VT 05447

WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602

Running Tonnage: 112.09

---

ucker:
504 D&G ENTERPRISES, LLC #4

Gross : 85980 Scale 1 In 10:52:43AM
Tare : 31340 STORED Out

Net : 54640 lb
27.320

002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H.
67 International Drive

(603) 783-0238

Ticket No : 211874
Date : 5/4/2004

Loudon, NH 03307

Max Acceptable Soil: 200.00

Customer: EC350
EC3 MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 84.77

Trucker:
ULTRA15 ULTRACRAFT ENTERPRISES, INC.

Gross : 87280 MAN WT In 10:34:12AM
Tare : 32540 STORED Out

Net : 54740 lb
27.370

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

:SMI of N.H.
37 International Drive

(603) 783-0228

Ticket No : 211873
Date : 5/4/2004

Loudon, NH 03307

Max. Acceptable Soil: 800.00

Customer: EC950
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No :3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 57.40

Trucker:
HANSON HANSON TRUCKING

Gross : 88260 Scale 1 In 10:17:58AM
Tare : 31420 STORED Out

Net : 56840 lb
28.420

F002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delivery $
Misc $
Tax $
Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211867
Date : 5/4/2004

Loudon, NH 03307

Max Acceptable Soil: 800.00

Customer: EC350
ECS MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No : 3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 28.98

Trucker:
3AC12 SCOT CHAMBERS TRUCK #12

Gross : 96360 Scale 1 In 9:41:33AM
Tare : 38400 STORED Out

Net : 57960 lb
28.980

F002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H.
67 International Drive

(603) 783-0228

Ticket No : 211918
Date : 5/4/2004

Loudon, NH 03307

Max. Acceptable Soil: 800.00

Customer: EC850
EC3 MARIN
65 MILLET STREET
SUITE # 301
RICHMOND, VT 05447

Job No : 3771
WALKER MOTORS (FORD FACILITY)
265 RIVER ST.
MONTPELIER VT 05602
Running Tonnage: 170.23

Trucker:
3AC12 SCOT CHAMBERS TRUCK #12

Gross : 83500 Scale 1 In 3:30:07PM
Tare : 38400 STORED Out

Net : 45100 lb
22.550

F002 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $

Total $

ESMI of N.H. (603)783-0228 Ticket No : 211920
67 International Drive Date : 5/4/2004

Loudon,NH 03307 Max Acceptable Soil: 300.00

Customer: EC550 Job No :3771
ECS MARIN WALKER MOTORS (FORD FACILITY)
65 MILLET STREET 265 RIVER ST.
SUITE # 301 MONTPELIER VT 05602
RICHMOND,VT 05447 Running Tonnage: 226.30

Trucker: Gross : 93520 MAN WT In 4:12:39PM
ULTRA15 ULTRACRAFT ENTERPRISES, INC. Tare : 32540 STORED Out

Net : 60980 lb
30.490

FO02 #2 FUEL OIL

Weigh Master: SUZANNE

Driver:

Remarks: Thank You For Your Business

Material $
Delvry $
Misc $
Tax $
Total $

APPENDIX D

GENERAL DISCHARGE PERMIT DOCUMENTATION

Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division
103 South Main Street, Sewing Building
Waterbury, VT 05671-0405

RECEIVED
MAY 12 2004

For Department Use Only

APPLICATION FOR REQUEST FOR TERMINATION OF COVERAGE

I. Permit Information:

A. Permit Number **3-9004** General Permit for Discharges from Petroleum Related Remediation Activities

NPDES Number VTG910001

NOI Number 3-4035.0404

B. Permittee's name Wade Walker

Name and Title of authorized representative Wade Walker, President Walker Motors

Mailing address 265 River Street
Montpelier VT

Telephone 802 223-5201 Fax 802 229-0290

C. Facility Name and Address:
Walker Motor Ford
265 River Street
Montpelier, VT 05602

II. Certification:

I hereby certify that all discharges from petroleum related remediation activities as described by NOI 3-4035.0404 have been eliminated and request that coverage under General Permit No. 3-9004 be terminated.

Wade D Walker Pres. (print name) | (signature) | 5/10/04 (date)

This request must be signed by the permittee, his legally authorized representative or an officer in the permittee's business. The request CANNOT be signed by the applicant's attorney, engineer, consultant, contractor, etc. unless they have been designated in writing as the permittee's authorized representative for the purposes of carrying out the requirements of this permit

---

For Department Use Only:

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION TERMINATION OF COVERAGE	
Authorization to discharge from petroleum related remediation activities as provided under General Permit 3-9004 and as described in Notice of Intent No 3-4035 is terminated.	
DEC Reviewer: Carole Fowler	Effective Date: 05/14/2004

ORIGINAL AND COPY TO STATE

RECEIVED APR 15 2004 WWMD

CK# 154650 $100.00
Walker Motors, Inc
(SM)

PUBLIC NOTICE
NOTICE OF INTENT FOR DISCHARGES FROM PETROLEUM
RELATED REMEDIATION ACTIVITIES
SUBJECT TO GENERAL PERMIT NO. 3-9004

INSTRUCTIONS ON REVERSE SIDE

NOTICE OF INTENT NO 3-4035 0404

1. Applicant Wade Walker

Legal Entity: ☒ Private ☐ State ☐ Municipal ☐ Other Describe

2 Address of Applicant: 265 River Street
Montpelier, Vermont

Telephone: (802) 223-5201

3. Name of Facility Walker Motors DEC Site No (if applicable): 2003-3108

Location of Facility (Street & Town(s)and include USGS Map): 265 River Street, Montpelier

Watershed area (square miles): 313 mi²

Mapping (include USGS map and indicate site location, discharge point and pathway to receiving water) Figure 1 and Figure 2

4 Type of Contamination: #2 fuel oil

Source of Contamination leaking UST – removed April 2003

Description of Contamination: Possible water collecting in an excavation

5 Description of Treatment System The dewatering system will consist of two 500-lb carbon drums, an oil water separator, and a flow meter. Water will be removed from the excavation pit with a sump pump.

Maximum Daily Design Flow (gpd). 3 gpm or 4320 gpd

Attach Site Schematics (site features, extent of contamination and detailed design of treatment system)

6 Anticipated Start Date of Discharge. 5/4/04

Anticipated Duration of Discharge. 3 days to one week

7 Discharge Point(s) and Receiving Water(s): 01 Stormwater catch basin
(Figure 2) 02 Drainage Swale
03 Winooski River

Describe Conveyance to Receiving Water(s): from dewatering system, discharging to a swale on the east side of US Route 2 that eventually discharges to the Winooski River.

8a. Application fee: $100 8b. Date of Application 4/13/04

APPLICANT CERTIFICATION: I hereby certify that I am responsible for the discharges from petroleum related remediation activities I also certify that I have read General Permit 3-9004 and agree to abide by its terms. I also certify that concurrent with the submittal of this Public Notice/Notice of Intent to the Department of Environmental Conservation, I have submitted a copy of this Public Notice/Notice of Intent to the municipal clerk in the municipality(ies) in which the discharge(s) occur.

9. Wade D Walker — President
Print or Type Name — Title

Wade D Walker — 4/18/04
Signature of applicant — Date

PUBLIC COMMENT

Public comments concerning this Notice of Intent to discharge under General Permit No 3-9004 are invited and must be submitted within 10 days of receipt of this Notice by the municipal clerk Comments should address how the application complies with the terms and conditions of General Permit No. 3-9004. All written comments received within the time frame described above will be considered by the Department of Environmental Conservation in its final ruling to grant or deny authorization to discharge under General Permit No. 3-9004. Any person may, within thirty (30) days of the final ruling by the Department of Environmental Conservation to grant or deny authorization to discharge, appeal the ruling to the Vermont Water Resources Board pursuant to 10 V.S.A. Section 1269.

Send written comments to. VT Department of Environmental Conservation
Wastewater Management Division
103 South Main Street, Sewing Building
Waterbury VT 05671-0405

A copy of General Permit No 3-9004 may be obtained by calling (802) 241-3822 or examined at the above address between 7:45 am and 4:30 pm.

For Department Use Only:

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AUTHORIZATION TO DISCHARGE

A determination has been made that the applicant meets the criteria necessary for inclusion under General Permit 3-9004. Subject to the conditions of General Permit No. 3-9004 the applicant is authorized to discharge from petroleum related remediation activities as described in Notice of Intent No. 3-4035

DEC Reviewer: Carole Fowler Effective Date: April 26, 2004

ORIGINAL AND ONE COPY TO STATE : ONE COPY TO MUNICIPAL CLERK . ONE COPY FOR APPLICANT

APPENDIX E

MANIFEST DOCUMENTATIONFOR DEWATERING

VERMONT AGENCY OF NATURAL RESOURCES
WASTE MANAGEMENT DIVISION
103 South Main Street, West Building
Waterbury, VT 05671-0404
802-241-3119

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter.)*

FOR STATE USE ONLY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. VTD040251035 — Manifest Document No. 66874
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but may be required by State Law.

3. Generator's Name and Mailing Address (where returned manifests are managed)
WALKER MOTORS
285 RIVER STREET
MONTPELIER, VT 05602
4. Generator's Phone ( ) 802 223-5201

A. State Manifest Document Number: VT 0166874
B. Generation Site (if different): 265 RIVER STREET, MONTPELIER, VT 05602

5. Transporter 1 Company Name: ENVIRONMENTAL PROD & SVCS OF VT, INC. — 6. US EPA ID Number: VTR000500090
7. Transporter 2 Company Name — 8. US EPA ID Number

C. Trans. 1 Lic. St. VT Plate # GZC19
D. Trans. 1 Phone (802 862-1212
E. Trans. 2 Lic. St. Plate #
F. Trans. 2 Phone ( )
G. State Facility's ID (Not Required)
H. Facility's Phone (518 465-4000

9. Designated Facility Name and Site Address
ALBANY NEW YORK TERMINAL
PORT OF ALBANY
ALBANY, NY 12202
10. US EPA ID Number: NYD986971877

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
GENERATOR a. WASTE FUEL OIL MIXTURE 3, NA1993, PG III	001	TT	0975	G	EPA NONE / STATE VT02
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above
e. #2 OIL & WATER
f. c. d.

K. Handling Codes for Wastes Listed Above
a. Interim Final c. Interim Final
b. d.

15. Special Handling Instructions and Additional Information
JOB #: V6153
PO#: NA
a.(N002) EMERGENCY PHONE #: 802-862-1212

Point of Departure or Entry - City, State

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State law and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity operator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Alan Stoddard — Signature: Alan Stoddard — Month Day Year: 05 07 04

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EUGENE BRUNELLE — Signature: Eugene Brunelle — Month Day Year: 05 07 04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted on Item 19.
Printed/Typed Name: Joe Lahue Jr. — Signature — Month Day Year: 05 14 04

EPA Form 8700-22 (Rev. 9/88) Form Approved OMB No. 2050-0039

COPY 3: FACILITY MAILS TO GENERATOR

COPY 3: FACILITY MAILS TO GENERATOR

APPENDIX F

SOIL BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

ecs
65 MILLET STREET (802) 434-4500
RICHMOND, VERMONT 05477 (802) 434-6076 - FAX

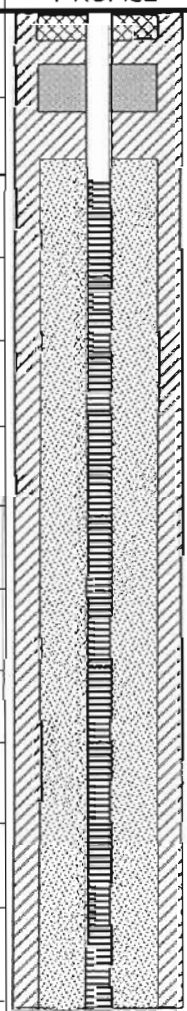
BORING / WELL IDENTIFICATION: MW-1A

SITE NAME:	Walker Motors
SITE LOCATION:	Montpelier, Vermont
INSTALLATION DATE:	11 May 2004
JOB NUMBER:	VTA3-0026D

WELL DEPTH:	12 ft bgs	BORING DEPTH:	12 ft bgs	MARIN REPRESENTATIVE:	Laura Woodard
DEPTH TO WATER (DURING DRILLING):	Approximately 8 ft bgs			DRILLING COMPANY:	ECS Agawam, MA
SCREEN DIAMETER:	1-inch	DEPTH:	2 - 12 ft bgs		
SCREEN TYPE/SIZE:	0.010 slot schedule 40 PVC			SAMPLING METHOD:	Geoprobe direct-push
RISER DIAMETER:	1-inch	DEPTH:	0 – 2 ft bgs	REFERENCE POINT (RP):	Grade
RISER TYPE/SIZE:	Schedule 40 PVC			ELEVATION OF RP:	not measured
REMARKS:	Well was completed with filter sand around the screen, a bentonite seal, native material fill to grade, and finished with a flush-mounted road box and cemented into place.				

DEPTH (IN FEET)	SAMPLE DEPTH (FT)	RECOVERY (FT)	SAMPLE DESCRIPTION AND NOTES	PID (PPM)
0			No samples were collected during drilling due to the presence of fill material from the recent excavation to bedrock	
1				
2				
3				
4				
5				
6				
7	▼			
8				
9				
10				
11			Boulders encountered at the bottom of the boring - used in the backfill at the bottom of the hole. BEDROCK REFUSAL AT 12'	
12			End of Sampling = 12 feet Well set @ 12 feet	

WELL PROFILE



LEGEND

- Concrete
- Native Material
- Bentonite
- Filter Sand
- Riser
- Screen
- Water Level

PROPORTIONS USED		BLOW COUNT (COHESIVE SOILS)		BLOW COUNT (GRANULAR SOILS)		Notes:
AND	33-50%	<2	VERY SOFT	0-4	VERY LOOSE	
SOME	20-33%	2-4	SOFT	4-10	LOOSE	PID used Thermo Model 580B
LITTLE	10-20%	4-8	MEDIUM STIFF	10-30	MEDIUM DENSE	
TRACE	0-10%	8-15	STIFF	30-50	DENSE	
		15-30	VERY STIFF	>50	VERY DENSE	
		>30	HARD			

65 MILLET STREET (802) 434-4500
RICHMOND, VERMONT 05477 (802) 434-6076 - FAX

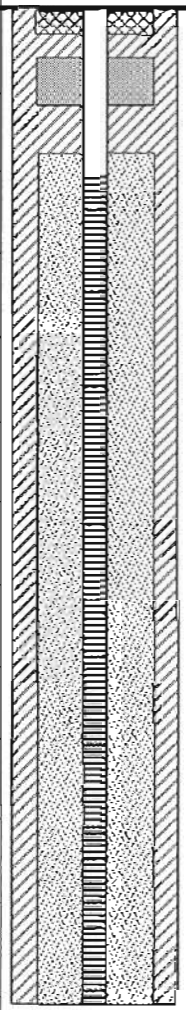
BORING / WELL IDENTIFICATION: MW-5A

SITE NAME:	Walker Motors
SITE LOCATION:	Montpelier, Vermont
INSTALLATION DATE:	11 May 2004
JOB NUMBER:	VTA3-0026D

WELL DEPTH:	12 ft bgs	BORING DEPTH:	13 ft bgs	MARIN REPRESENTATIVE:	Laura Woodard
DEPTH TO WATER (DURING DRILLING):	Approximately 8 ft bgs			DRILLING COMPANY:	ECS Agawam, MA
SCREEN DIAMETER:	1-inch	DEPTH:	2 - 12 ft bgs		
SCREEN TYPE/SIZE:	0.010 slot schedule 40 PVC			SAMPLING METHOD:	Geoprobe direct-push
RISER DIAMETER:	1-inch	DEPTH:	0 – 2 ft bgs	REFERENCE POINT (RP):	Grade
RISER TYPE/SIZE:	Schedule 40 PVC			ELEVATION OF RP:	not measured
REMARKS:	Well was completed with filter sand around the screen, a bentonite seal, native material fill to grade, and finished with a flush-mounted road box and cemented into place.				

DEPTH (IN FEET)	SAMPLE DEPTH (FT)	RECOVERY (FT)	SAMPLE DESCRIPTION AND NOTES	PID (PPM)
0			No samples were collected during drilling due to the presence of fill material from the recent excavation to bedrock.	
1				
2				
3				
4				
5				
6				
7				
8	▼			
9				
10				
11			BEDROCK REFUSAL AT 13'	
12			End of Sampling @ 13 feet Well set @ 12 feet	

WELL PROFILE



LEGEND

- Concrete
- Native Material
- Bentonite
- Filter Sand
- Riser
- Screen
- Water Level

PROPORTIONS USED		BLOW COUNT (COHESIVE SOILS)		BLOW COUNT (GRANULAR SOILS)		Notes:
AND	33-50%	<2	VERY SOFT	0-4	VERY LOOSE	PID used Thermo Model 580B
SOME	20-33%	2-4	SOFT	4-10	LOOSE	
LITTLE	10-20%	4-8	MEDIUM STIFF	10-30	MEDIUM DENSE	
TRACE	0-10%	8-15	STIFF	30-50	DENSE	
		15-30	VERY STIFF	>50	VERY DENSE	
		>30	HARD			

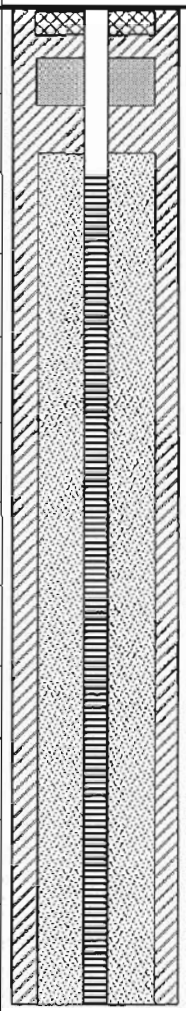
65 MILLET STREET (802) 434-4500
RICHMOND, VERMONT 05477 (802) 434-6076 - FAX

BORING / WELL IDENTIFICATION: MW-6A

SITE NAME:	Walker Motors
SITE LOCATION:	Montpelier, Vermont
INSTALLATION DATE:	11 May 2004
JOB NUMBER:	VTA3-0026D

WELL DEPTH:	12 ft bgs	BORING DEPTH:	12.5 ft bgs	MARIN REPRESENTATIVE:	Laura Woodard
DEPTH TO WATER (DURING DRILLING):	Approximately 8 ft bgs			DRILLING COMPANY:	ECS Agawam, MA
SCREEN DIAMETER:	1-inch	DEPTH:	2 - 12 ft bgs		
SCREEN TYPE/SIZE:	0.010 slot schedule 40 PVC			SAMPLING METHOD:	Geoprobe direct-push
RISER DIAMETER:	1-inch	DEPTH:	0 – 2 ft bgs	REFERENCE POINT (RP):	Grade
RISER TYPE/SIZE:	Schedule 40 PVC			ELEVATION OF RP:	not measured
REMARKS:	Well was completed with filter sand around the screen, a bentonite seal, native material fill to grade, and finished with a flush-mounted road box and cemented into place.				

DEPTH (IN FEET)	SAMPLE DEPTH (FT)	RECOVERY (FT)	SAMPLE DESCRIPTION AND NOTES	PID (PPM)
0			No samples were collected during drilling due to the presence of fill material from the recent excavation to bedrock.	
1				
2				
3				
4				
5				
6				
7	▼			
8				
9				
10				
11			BEDROCK REFUSAL AT 12.5'	
12			End of Sampling = 12.5 feet Well set @ 12 feet	



LEGEND
- Concrete
- Native Material
- Bentonite
- Filter Sand
- Riser
- Screen
- Water Level

PROPORTIONS USED		BLOW COUNT (COHESIVE SOILS)		BLOW COUNT (GRANULAR SOILS)		Notes:
AND	33-50%	<2	VERY SOFT	0-4	VERY LOOSE	
SOME	20-33%	2-4	SOFT	4-10	LOOSE	PID used: Thermo Model 580B
LITTLE	10-20%	4-8	MEDIUM STIFF	10-30	MEDIUM DENSE	
TRACE	0-10%	8-15	STIFF	30-50	DENSE	
		15-30	VERY STIFF	>50	VERY DENSE	
		>30	HARD			

APPENDIX G

LABORATORY ANALYTICAL RESULTS FOR WATER SAMPLES

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

ECS Marin
65 Millet Street
Richmond, VT 05477
Attn: Laura Woodard

PROJECT: Walker Motors/30026D
ORDER ID: 29993
RECEIVE DATE: June 3, 2004
REPORT DATE: June 17, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

RECEIVED
JUN 21 2004

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ACCREDITED IN ACCORDANCE WITH nelac
ELAP 11263

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: ECS Marin
PROJECT: Walker Motors/30026D
REPORT DATE: June 17, 2004

ORDER ID: 29993
DATE RECEIVED: June 3, 2004
SAMPLER: LW/MD
ANALYST: 333

Ref. Number: 231943 | Site: DEC-1 | Date Sampled: June 2, 2004 | Time: 2:50 PM

Parameter	Result	Unit	Method	Analysis Date
Fuel ID	Gasoline	n/a	SW 8015B	6/14/04
n-Alkane Range	C7-C14	n/a	SW 8015B	6/14/04

Ref. Number: 231944 | Site: PD-2 | Date Sampled: June 2, 2004 | Time: 3:10 PM

Parameter	Result	Unit	Method	Analysis Date
Fuel ID	Gasoline	n/a	SW 8015B	6/14/04
n-Alkane Range	C7-C14	n/a	SW 8015B	6/14/04

Ref. Number: 231945 | Site: PD-3 | Date Sampled: June 2, 2004 | Time: 3:05 PM

Parameter	Result	Unit	Method	Analysis Date
Fuel ID	Gasoline	n/a	SW 8015B	6/14/04
n-Alkane Range	C7-C14	n/a	SW 8015B	6/14/04

Ref. Number: 231946 | Site: PD-4 | Date Sampled: June 2, 2004 | Time: 3:00 PM

Parameter	Result	Unit	Method	Analysis Date
Fuel ID	Gasoline	n/a	SW 8015B	6/14/04
n-Alkane Range	C7-C14	n/a	SW 8015B	6/14/04

Ref. Number: 231947 | Site: PD-5 | Date Sampled: June 2, 2004 | Time: 2:55 PM

Parameter	Result	Unit	Method	Analysis Date
Fuel ID	Gasoline	n/a	SW 8015B	6/14/04
n-Alkane Range	C7-C14	n/a	SW 8015B	6/14/04

ACCREDITED IN ACCORDANCE WITH nelac ELAP 11263

59259

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions: PDF please

Project Name: Walker Motors VTA3-0026D	Reporting Address: ECS 65 Millet Street	Billing Address: ← Same (Special pricing)
Endyne Order ID: (Lab Use Only) 29993 — 3 -O, -I, -S	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW/MD Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 6/2/04	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-1a	GW	X		1145	4	voa		19, 23	HCl	
	MW-5a	↓	↓		1140	↓	↓		↓	↓	
	MW-6a				1135						
	MW-8				1130						
	MW-10				1125						
	MW-12				1120						
	MW-15				1100						
	MW-17				1105						
	MW-18				1110						
	MW-19	↓	↓		1115	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L. Woodard	6/3/04 0900	(signature)	6/3/04	125pm	

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

Page 2 of 2

59263

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160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions: PDF please

Project Name: Walker Motors VTA3-0026D	Reporting Address: ECS 65 Millet St	Billing Address: ← Same (special pricing)
Endyne Order ID: (Lab Use Only) 29993 (3-O, -I, -S)	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW/MD Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-2	GW	X		1148	2	VOA		19	HCl	
	CB-3	↓			1150	4	VOA		19,23		
	SW-1	SW			1230						
	SW-2	SW			1235				↓		
	DEC-1	GW			1450			8015 fuel ID, 19			
	PD-2				1510						
	PD-3				1505						
	PD-4				1500						
	PD-5	↓	↓		1455	↓	↓		↓		
	Trip	GW	X		0800	2	VOA		19	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L Woodard	6/3/04 0900	[illegible]	6/3/04	125 pm	

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

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ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

ECS Marin	PROJECT: Walker Motors/30026D
65 Millet Street	ORDER ID: 29993
Richmond, VT 05477	RECEIVE DATE: June 3, 2004
Attn: Laura Woodard	REPORT DATE: June 23, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

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Laboratory Services

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Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: ECS Marin
PROJECT: Walker Motors/30026D
REPORT DATE: June 23, 2004

ORDER ID: 29993
DATE RECEIVED: June 3, 2004
SAMPLER: LW/MD
ANALYST: 333

Ref. Number: 231929 | Site: MW-1A | Date Sampled: June 2, 2004 | Time: 11:45 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	58.8	mg/L	SW 8015B	6/14/04

Ref. Number: 231930 | Site: MW-5A | Date Sampled: June 2, 2004 | Time: 11:40 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	114.	mg/L	SW 8015B	6/14/04

Ref. Number: 231931 | Site: MW-6A | Date Sampled: June 2, 2004 | Time: 11:35 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	486.	mg/L	SW 8015B	6/14/04

Ref. Number: 231932 | Site: MW-8 | Date Sampled: June 2, 2004 | Time: 11:30 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	6/14/04

Ref. Number: 231933 | Site: MW-10 | Date Sampled: June 2, 2004 | Time: 11:25 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	0.43	mg/L	SW 8015B	6/9/04

Ref. Number: 231934 | Site: MW-12 | Date Sampled: June 2, 2004 | Time: 11:20 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	6/9/04

ENDYNE, INC.

Laboratory Services

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FAX 879-7103

LABORATORY REPORT

Ref. Number: 231935 | Site: MW-15 | Date Sampled: June 2, 2004 | Time: 11:00 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	6/14/04

Ref. Number: 231936 | Site: MW-17 | Date Sampled: June 2, 2004 | Time: 11:05 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	0.70	mg/L	SW 8015B	6/14/04

Ref. Number: 231937 | Site: MW-18 | Date Sampled: June 2, 2004 | Time: 11:10 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	2.05	mg/L	SW 8015B	6/9/04

Ref. Number: 231938 | Site: MW-19 | Date Sampled: June 2, 2004 | Time: 11:15 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	11.3	mg/L	SW 8015B	6/9/04

Ref. Number: 231940 | Site: CB-3 | Date Sampled: June 2, 2004 | Time: 11:50 AM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	63.5	mg/L	SW 8015B	6/14/04

Ref. Number: 231941 | Site: SW-1 | Date Sampled: June 2, 2004 | Time: 12:30 PM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	0.64	mg/L	SW 8015B	6/9/04

Ref. Number: 231942 | Site: SW-2 | Date Sampled: June 2, 2004 | Time: 12:35 PM

Parameter	Result	Unit	Method	Analysis Date
TPH 8015 DRO	0.53	mg/L	SW 8015B	6/9/04

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ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions: PDF please

Project Name: Walker Motors VTA3-0026D	Reporting Address: ECS 65 Millet Street	Billing Address: ← Same (Special pricing)
Endyne Order ID: (Lab Use Only) 29993 — 3 -O, -I, -S	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW/MD Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 6/2/04	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-1a	GW	X		1145	4	voa		19, 23	HCl	
	MW-5a	↓	↓		1140	↓	↓		↓	↓	
	MW-6a				1135						
	MW-8				1130						
	MW-10				1125						
	MW-12				1120						
	MW-15				1100						
	MW-17				1105						
	MW-18				1110						
	MW-19	↓	↓		1115	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L. Woodard	6/3/04 0900	(signature)	6/3/04	125pm	

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

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32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

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Page 2 of 2

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160 James Brown Drive
Williston, Vermont 05495
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CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions: PDF please

Project Name: Walker Motors VTA3-0026D	Reporting Address: ECS 65 Millet St	Billing Address: ← Same (special pricing)
Endyne Order ID: (Lab Use Only) 29993 (3-O, -I, -S)	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW/MD Phone #: 434-4500

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	MW-2	GW	X		1148	2	VOA		19	HCl	
	CB-3	↓			1150	4	VOA		19,23		
	SW-1	SW			1230						
	SW-2	SW			1235				↓		
	DEC-1	GW			1450			8015 fuel ID, 19			
	PD-2				1510						
	PD-3				1505						
	PD-4				1500						
	PD-5	↓	↓		1455	↓	↓		↓		
	Trip	GW	X		0800	2	VOA		19	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L Woodard	6/3/04 0900	[illegible]	6/3/04	125 pm	

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

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34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

ECS Marin	PROJECT: Walker Motors/30026D
65 Millet Street	ORDER ID: 29993
Richmond, VT 05477	RECEIVE DATE: June 3, 2004
Attn: Laura Woodard	REPORT DATE: June 23, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

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Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

PROJECT: Walker Motors/30026D
DATE RECEIVED: June 3, 2004
REPORT DATE: June 23, 2004

ANAL. METHOD: SW 8021B
SAMPLER: LW/MD
ANALYST: 420

Site: MW-1A
Ref. Number: 231929
Date Sampled: 6/2/04
Time Sampled: 11:45 AM
Analysis Date: 6/16/04

Parameter	Results ug/L
MTBE	5.1
Benzene	< 5.0
Toluene	14.8
Ethylbenzene	31.1
Xylenes, Total	204.
1,3,5 Trimethyl Benzene	72.6
1,2,4 Trimethyl Benzene	167.
Naphthalene	72.0
UIP's	> 10.
Surrogate 1	88.%

Site: MW-8
Ref. Number: 231932
Date Sampled: 6/2/04
Time Sampled: 11:30 AM
Analysis Date: 6/11/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

Site: MW-15
Ref. Number: 231935
Date Sampled: 6/2/04
Time Sampled: 11:00 AM
Analysis Date: 6/11/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	110.%

Site: MW-5A
Ref. Number: 231930
Date Sampled: 6/2/04
Time Sampled: 11:40 AM
Analysis Date: 6/16/04

Parameter	Results ug/L
MTBE	< 5.0
Benzene	< 5.0
Toluene	< 5.0
Ethylbenzene	29.5
Xylenes, Total	194.
1,3,5 Trimethyl Benzene	96.1
1,2,4 Trimethyl Benzene	214.
Naphthalene	63.5
UIP's	> 10.
Surrogate 1	101.%

Site: MW-10
Ref. Number: 231933
Date Sampled: 6/2/04
Time Sampled: 11:25 AM
Analysis Date: 6/11/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	100.%

Site: MW-17
Ref. Number: 231936
Date Sampled: 6/2/04
Time Sampled: 11:05 AM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 2.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	2.4
1,2,4 Trimethyl Benzene	24.9
Naphthalene	15.2
UIP's	> 10.
Surrogate 1	99.%

Site: MW-6A
Ref. Number: 231931
Date Sampled: 6/2/04
Time Sampled: 11:35 AM
Analysis Date: 6/11/04

Parameter	Results ug/L
MTBE	87.2
Benzene	95.6
Toluene	181.
Ethylbenzene	181.
Xylenes, Total	1,190.
1,3,5 Trimethyl Benzene	347.
1,2,4 Trimethyl Benzene	855.
Naphthalene	297.
UIP's	> 10.
Surrogate 1	100.%

Site: MW-12
Ref. Number: 231934
Date Sampled: 6/2/04
Time Sampled: 11:20 AM
Analysis Date: 6/11/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	103.%

Site: MW-18
Ref. Number: 231937
Date Sampled: 6/2/04
Time Sampled: 11:10 AM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	> 10.
Surrogate 1	99.%

ENDYNE, INC.

Laboratory Services
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(802) 879-4333
FAX 879-7103

LABORATORY REPORT

PROJECT: Walker Motors/30026D
DATE RECEIVED: June 3, 2004
REPORT DATE: June 23, 2004

ANAL. METHOD: SW 8021B
SAMPLER: LW/MD
ANALYST: 420

Site: MW-19
Ref. Number: 231938
Date Sampled: 6/2/04
Time Sampled: 11:15 AM
Analysis Date: 6/16/04

Parameter	Results ug/L
MTBE	< 5.0
Benzene	< 5.0
Toluene	< 5.0
Ethylbenzene	< 5.0
Xylenes, Total	< 10.0
1,3,5 Trimethyl Benzene	< 5.0
1,2,4 Trimethyl Benzene	13.2
Naphthalene	< 5.0
UIP's	> 10.
Surrogate 1	103.%

Site: SW-1
Ref. Number: 231941
Date Sampled: 6/2/04
Time Sampled: 12:30 PM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	1.4
Naphthalene	1.2
UIP's	> 10.
Surrogate 1	116.%

Site: PD-2
Ref. Number: 231944
Date Sampled: 6/2/04
Time Sampled: 3:10 PM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 50.0
Benzene	314.
Toluene	< 50.0
Ethylbenzene	406.
Xylenes, Total	2,330.
1,3,5 Trimethyl Benzene	626.
1,2,4 Trimethyl Benzene	1,490.
Naphthalene	379.
UIP's	> 10.
Surrogate 1	100.%

Site: MW-2
Ref. Number: 231939
Date Sampled: 6/2/04
Time Sampled: 11:48 AM
Analysis Date: 6/15/04

Parameter	Results ug/L
MTBE	< 5.0
Benzene	5.7
Toluene	18.7
Ethylbenzene	36.0
Xylenes, Total	241.
1,3,5 Trimethyl Benzene	78.1
1,2,4 Trimethyl Benzene	185.
Naphthalene	90.0
UIP's	> 10.
Surrogate 1	89.%

Site: SW-2
Ref. Number: 231942
Date Sampled: 6/2/04
Time Sampled: 12:35 PM
Analysis Date: 6/16/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	1.1
Naphthalene	< 1.0
UIP's	> 10.
Surrogate 1	102.%

Site: PD-3
Ref. Number: 231945
Date Sampled: 6/2/04
Time Sampled: 3:05 PM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 50.0
Benzene	326.
Toluene	73.8
Ethylbenzene	1,480.
Xylenes, Total	5,300.
1,3,5 Trimethyl Benzene	1,100.
1,2,4 Trimethyl Benzene	3,200.
Naphthalene	477.
UIP's	> 10.
Surrogate 1	95.%

Site: CB-3
Ref. Number: 231940
Date Sampled: 6/2/04
Time Sampled: 11:50 AM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	6.5
Benzene	6.8
Toluene	< 5.0
Ethylbenzene	< 5.0
Xylenes, Total	47.2
1,3,5 Trimethyl Benzene	28.3
1,2,4 Trimethyl Benzene	101.
Naphthalene	51.2
UIP's	> 10.
Surrogate 1	100.%

Site: DEC-1
Ref. Number: 231943
Date Sampled: 6/2/04
Time Sampled: 2:50 PM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 10.0
Benzene	10.8
Toluene	< 10.0
Ethylbenzene	275.
Xylenes, Total	517.
1,3,5 Trimethyl Benzene	36.9
1,2,4 Trimethyl Benzene	523.
Naphthalene	91.0
UIP's	> 10.
Surrogate 1	93.%

Site: PD-4
Ref. Number: 231946
Date Sampled: 6/2/04
Time Sampled: 3:00 PM
Analysis Date: 6/16/04

Parameter	Results ug/L
MTBE	12.1
Benzene	120.
Toluene	29.7
Ethylbenzene	192.
Xylenes, Total	174.
1,3,5 Trimethyl Benzene	28.9
1,2,4 Trimethyl Benzene	225.
Naphthalene	44.2
UIP's	> 10.
Surrogate 1	92.%

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

PROJECT: Walker Motors/30026D
DATE RECEIVED: June 3, 2004
REPORT DATE: June 23, 2004

ANAL. METHOD: SW 8021B
SAMPLER: LW/MD
ANALYST: 420

Site: PD-5
Ref. Number: 231947
Date Sampled: 6/2/04
Time Sampled: 2:55 PM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 50.0
Benzene	272.
Toluene	< 50.0
Ethylbenzene	836.
Xylenes, Total	981.
1,3,5 Trimethyl Benzene	112.
1,2,4 Trimethyl Benzene	1,200.
Naphthalene	211.
UIP's	> 10.
Surrogate 1	99.%

Site: Trip
Ref. Number: 231948
Date Sampled: 6/2/04
Time Sampled: 8:00 AM
Analysis Date: 6/14/04

Parameter	Results ug/L
MTBE	< 1.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	105.%

59259

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions: PDF please

Project Name: Walker Motors VTA3-0026D	Reporting Address: ECS 65 Millet Street	Billing Address: ← Same (Special pricing)
Endyne Order ID: (Lab Use Only) 29993 — 3 -O, -I, -S	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW/MD Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 6/2/04	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-1a	GW	X		1145	4	voa		19, 23	HCl	
	MW-5a	↓	↓		1140	↓	↓		↓	↓	
	MW-6a				1135						
	MW-8				1130						
	MW-10				1125						
	MW-12				1120						
	MW-15				1100						
	MW-17				1105						
	MW-18				1110						
	MW-19	↓	↓		1115	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L. Woodard	6/3/04 0900	(signature)	6/3/04	125pm	

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

Page 2 of 2

59263

≡ ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Special Reporting Instructions: PDF please

Project Name: Walker Motors VTA3-0026D	Reporting Address: ECS 65 Millet St	Billing Address: ← Same (special pricing)
Endyne Order ID: (Lab Use Only) 29993 (3-O, -I, -S)	Company: ECS Contact Name/Phone #: Laura Woodard	Sampler Name: LW/MD Phone #: 434-4500

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	MW-2	GW	X		1148	2	VOA		19	HCl	
	CB-3	↓			1150	4	VOA		19,23		
	SW-1	SW			1230						
	SW-2	SW			1235				↓		
	DEC-1	GW			1450			8015 fuel ID, 19			
	PD-2				1510						
	PD-3				1505						
	PD-4				1500						
	PD-5	↓	↓		1455	↓	↓		↓		
	Trip	GW	X		0800	2	VOA		19	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Laura L Woodard	6/3/04 0900	[illegible]	6/3/04	125 pm	

New York State Project: Yes _____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

LAB USE ONLY
Delivery: PU
Temp:
Comment:

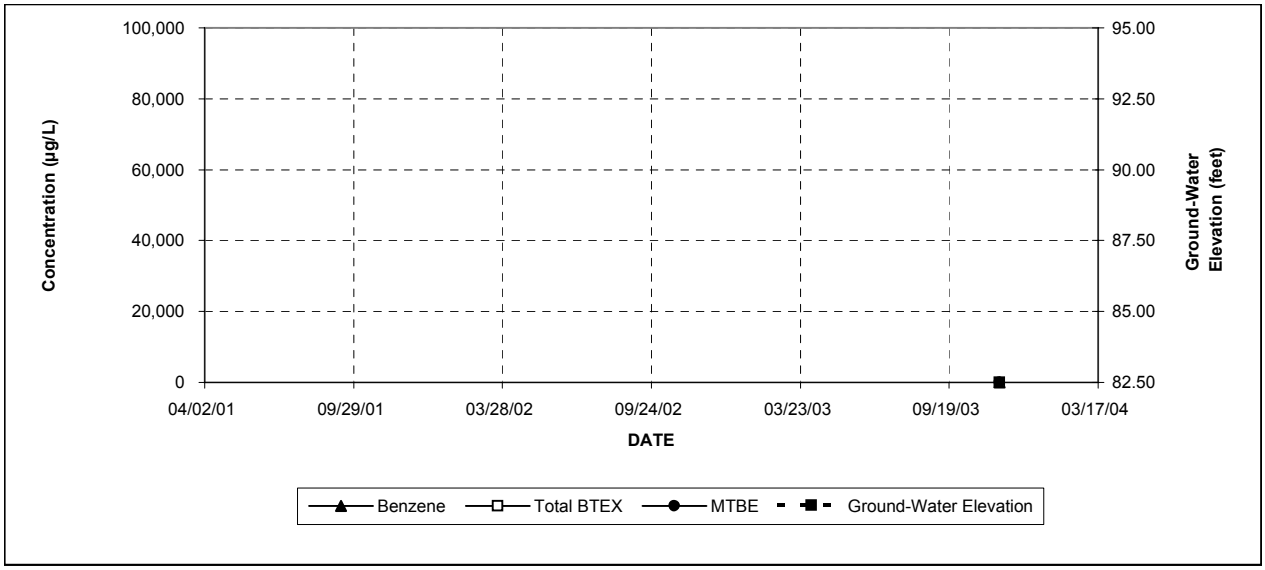
(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

APPENDIX H

TIME-SERIES GRAPHS

FIGURE 1. PD-1
VOC Concentrations

Walker Motors
Montpelier, VT

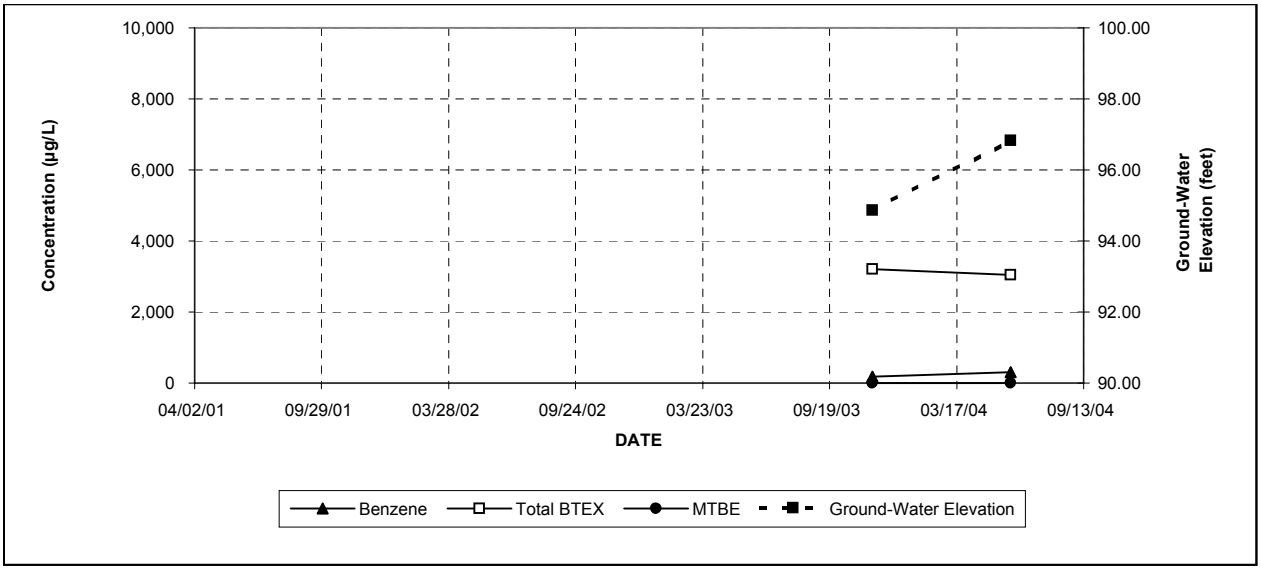


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
11/19/03	**11.2**	**ND<1**	**9.9**	**31.0**	**52**	**3.4**	**4.1**	**8.6**	**1.3**	
VGES	*5*	*1,000*	*700*	*10,000*	--	*40*	*4*	*5*	*20*	--

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc.
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards; shaded areas indicate VGES exceedances.

FIGURE 2. PD-2
VOC Concentrations

Walker Motors
Montpelier, VT

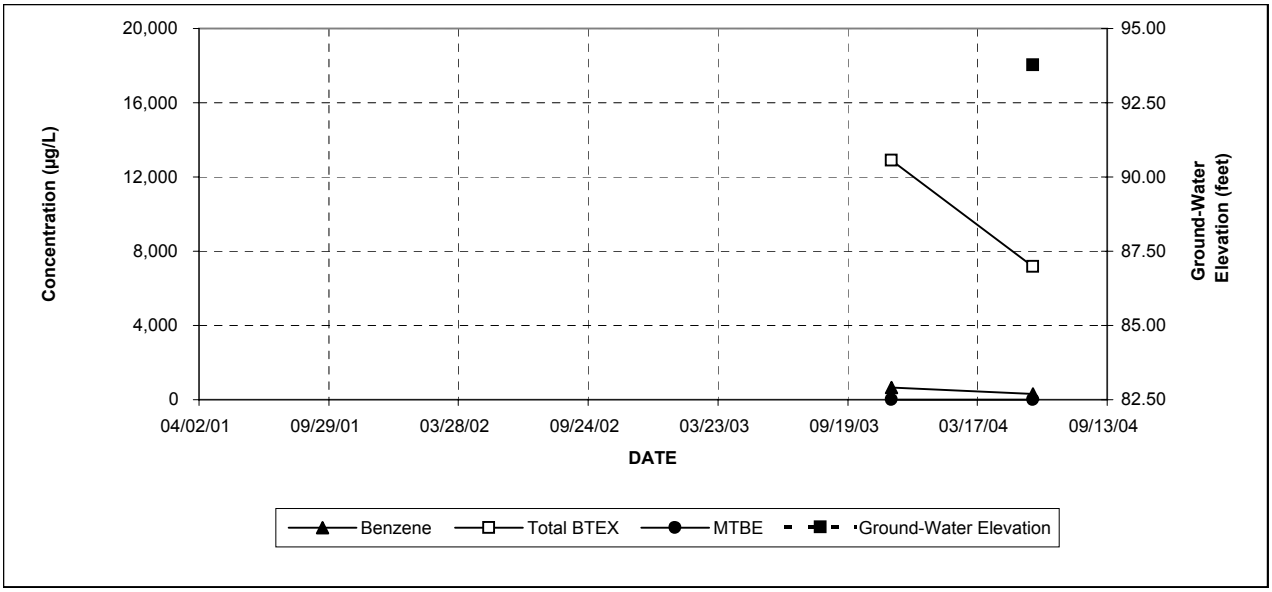


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
11/19/03	**173**	**107**	**282**	**2,650**	**3,212**	ND<5	**397**	**1,790**	**321**	94.86
06/02/04	**314**	ND<50.0	**406**	**2330**	**3050**	ND<50.0	**626**	**1490**	**379**	96.82
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc.
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards; shaded areas indicate VGES exceedances.

FIGURE 3. PD-3
VOC Concentrations

Walker Motors
Montpelier, VT

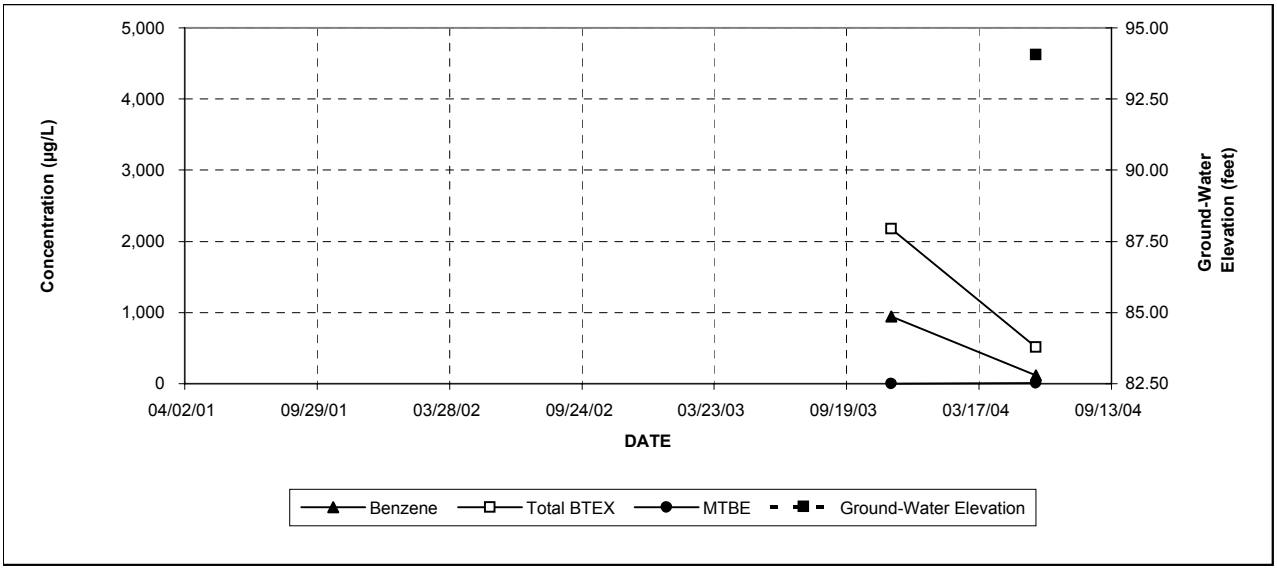


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
11/19/03	**661**	**150**	**2,890**	**9,190**	**12,891**	ND<100	**1,510**	**4,920**	**1,010**	
06/02/04	**326**	**73.8**	**1480**	**5300**	**7,180**	ND<50.0	**1100**	**3200**	**477**	93.77
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 4. PD-4
VOC Concentrations

Walker Motors
Montpelier, VT

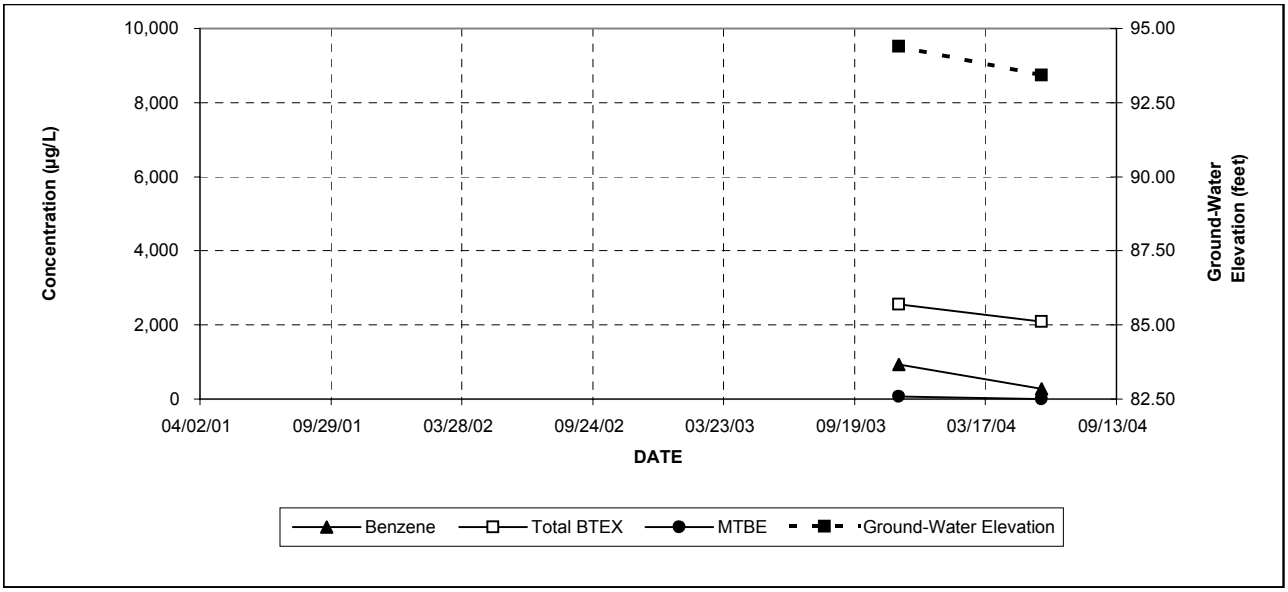


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
11/19/03	**945**	ND<100	**758**	**474**	**2,177**	ND<100	ND<100	**685**	**230**	
06/02/04	**120**	**29.7**	**192**	**174**	**516**	**12.1**	**28.9**	**225**	**44.2**	94.05
VGES	*5*	*1,000*	*700*	*10,000*	--	*40*	*4*	*5*	*20*	--

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc.
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 5. PD-5
VOC Concentrations

Walker Motors
Montpelier, VT

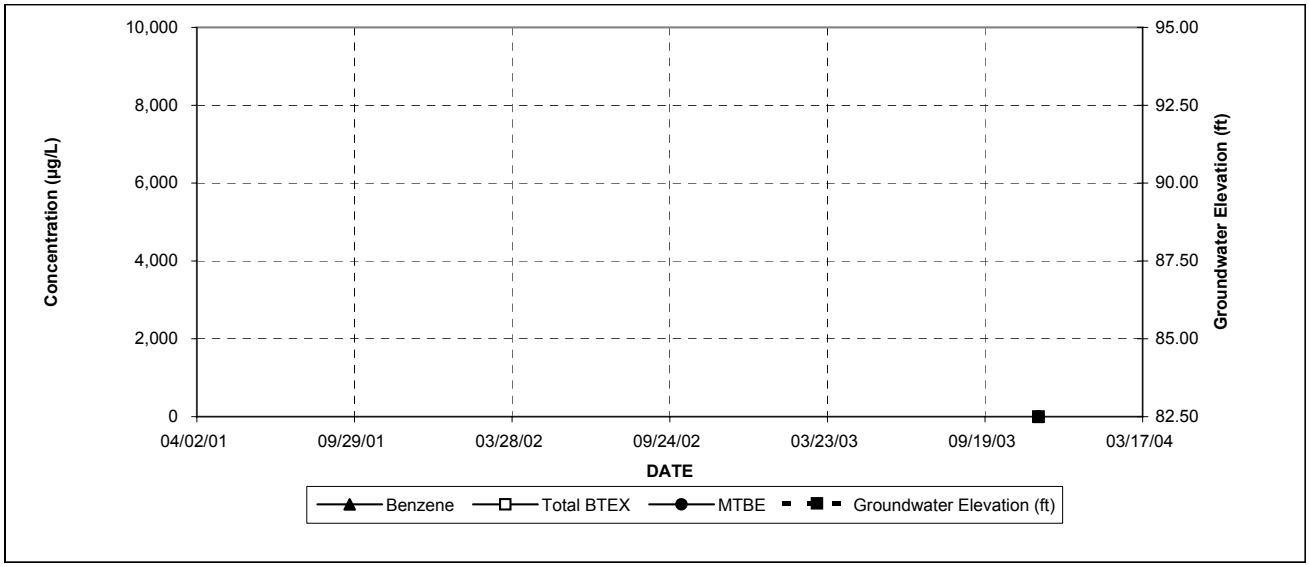


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
11/19/03	**936**	**81.7**	**843**	**703**	**2,564**	**65.5**	**94.2**	**741**	**180**	94.40
06/02/04	**272**	ND<50.0	**836**	**981**	**2,089**	ND<50.0	**112**	**1200**	**211**	93.43
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 6. PD-6
VOC Concentrations

Walker Motors
Montpelier, VT

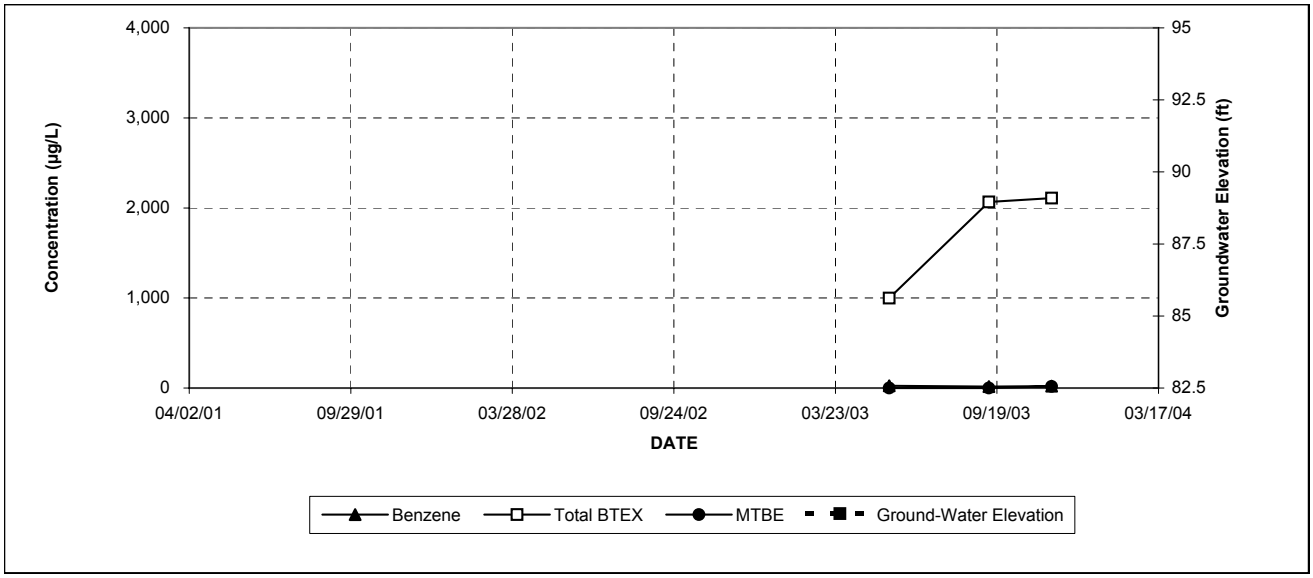


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
11/19/03	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc.
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 7. DEC-1
VOC Concentrations

Walker Motors
Montpelier, VT

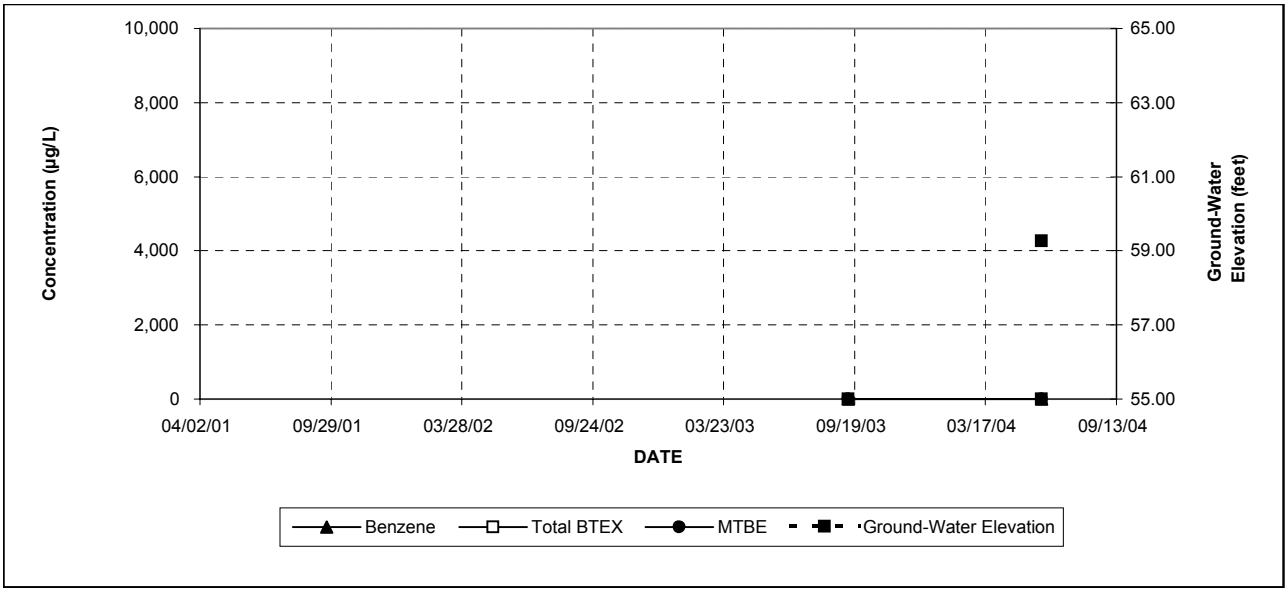


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
05/22/03	**24.9**	ND<20	**331**	**642**	**998**	ND<20	**66.1**	**826**	**152**	
09/10/03	**15.8**	**23.2**	**758**	**1,269**	**2,066**	ND<5	**121**	**1,400**	**375**	
11/19/03	**21.7**	**18.1**	**739**	**1,330**	**2,109**	**17.0**	**114**	**1,510**	**267**	
06/02/04	**10.8**	ND<10.0	**275**	**517**	**803**	ND<10.0	**36.9**	**523**	**91.0**	94.17
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc.
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 8. MW-12
VOC Concentrations

Walker Motors
Montpelier, VT

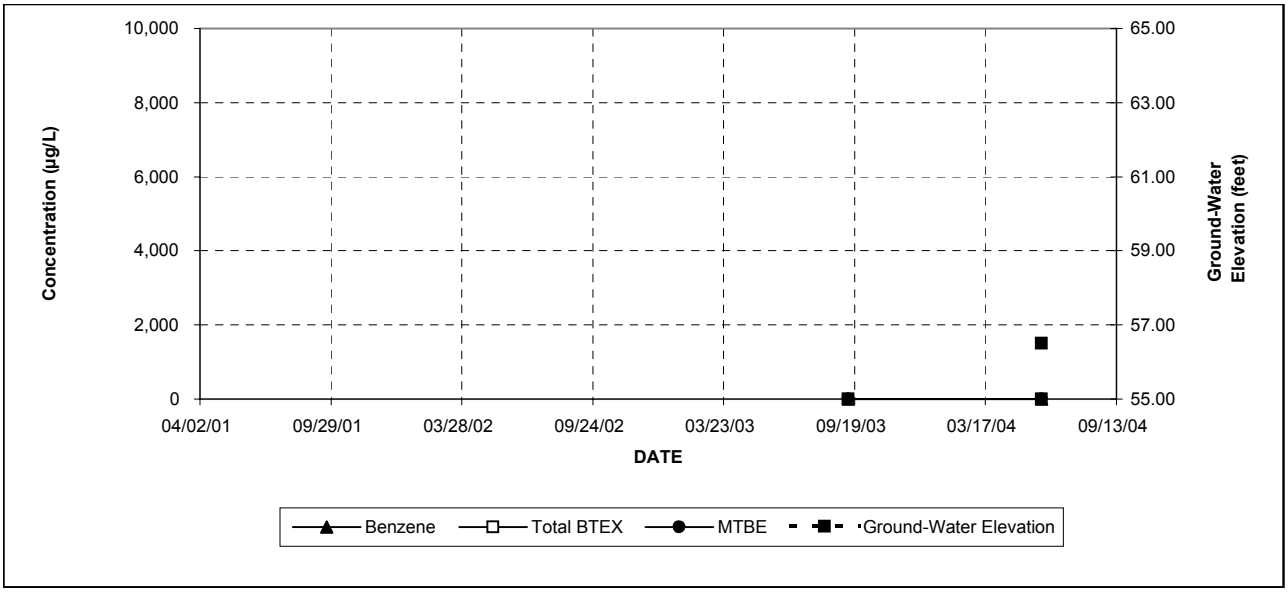


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
09/10/03	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	
06/02/04	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	59.27
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 9. MW-15
VOC Concentrations

Walker Motors
Montpelier, VT

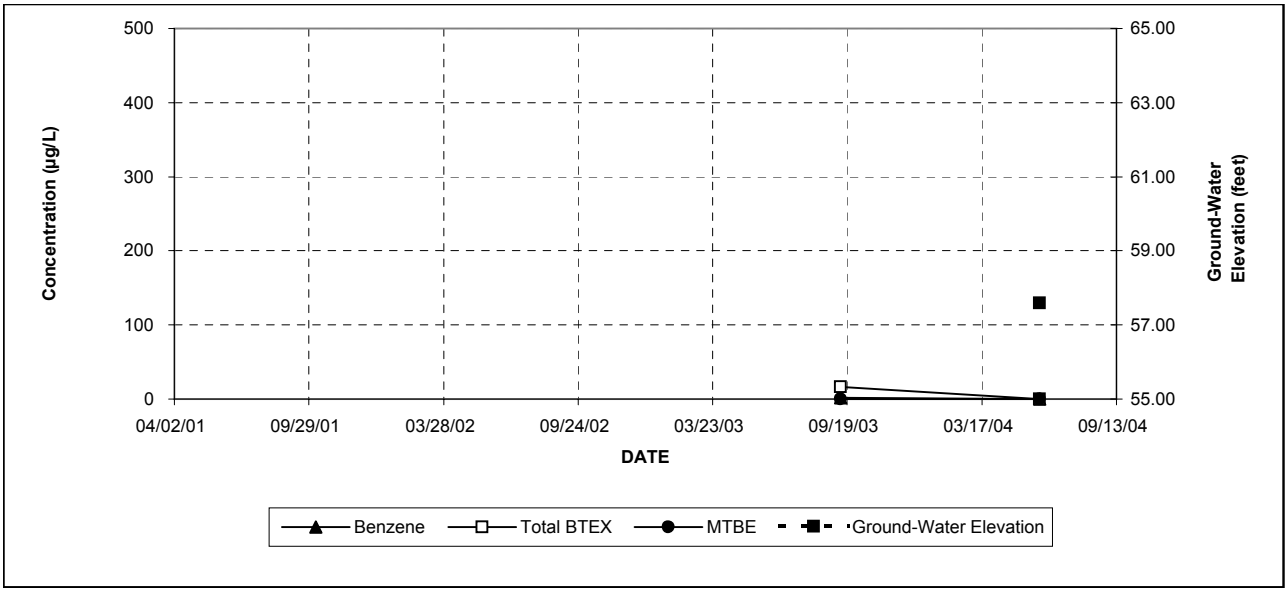


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
09/10/03	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	
06/02/04	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	56.51
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 10. MW-17
VOC Concentrations

Walker Motors
Montpelier, VT

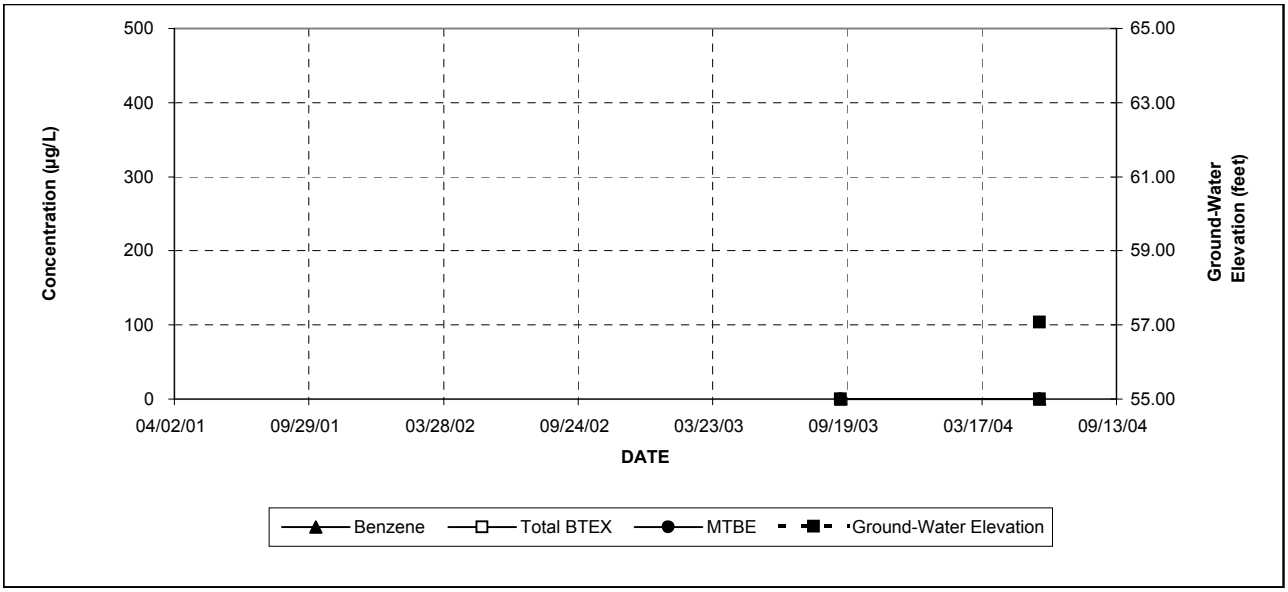


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
09/10/03	**1.48**	**2.22**	**1.22**	**11.73**	**16.65**	ND<1	**4.47**	**22.80**	**30.10**	
06/02/04	ND<1	ND<1	ND<1	ND<2	ND	ND<1	**2.4**	**24.9**	**15.2**	57.59
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 11. MW-18
VOC Concentrations

Walker Motors
Montpelier, VT

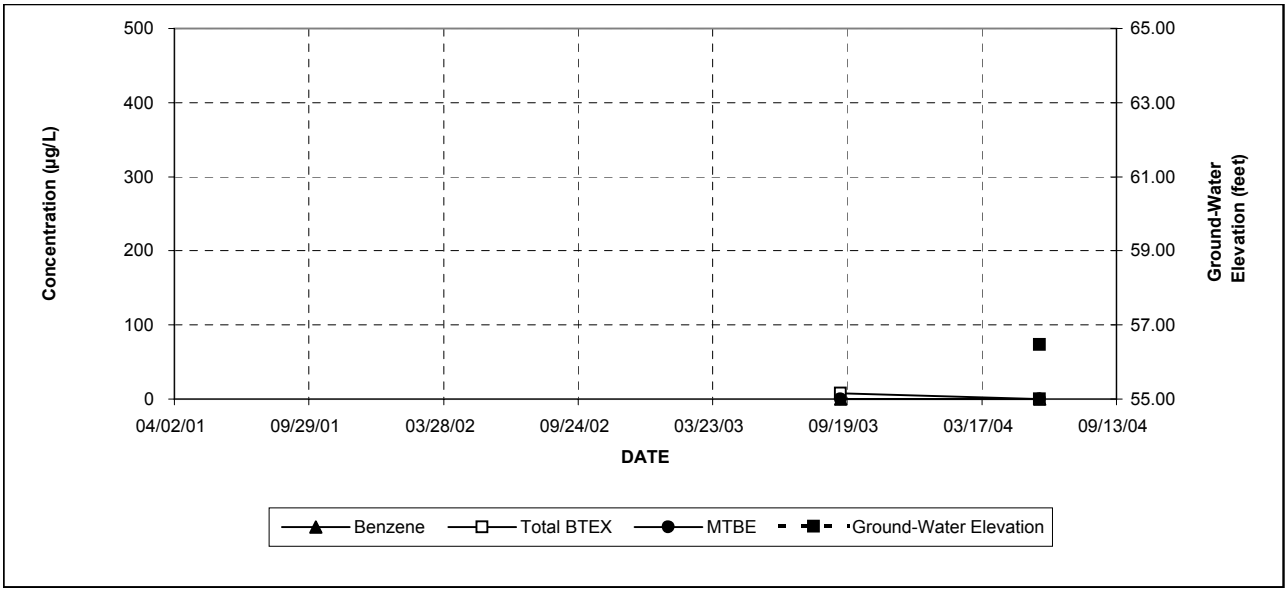


Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
09/10/03	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	
06/02/04	ND<1	ND<1	ND<1	ND<2	ND	ND<1	ND<1	ND<1	ND<1	57.08
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

FIGURE 12. MW-19
VOC Concentrations

Walker Motors
Montpelier, VT



Date	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	MTBE	1,3,5 TMB	1,2,4 TMB	Naph-thalene	Ground-Water Elevation
09/10/03	ND<5	ND<5	ND<5	**7.4**	**7.4**	ND<5	**37.7**	**139.0**	**105.0**	
06/02/04	ND<5	ND<5	ND<5	ND<10	ND	ND<5	ND<5	**13.2**	ND<5	56.47
VGES	*5*	*1,000*	*700*	*10,000*	*--*	*40*	*4*	*5*	*20*	*--*

Notes:
Concentrations in micrograms per liter (µg/L).
All samples collected by ECS and analyzed by Endyne, Inc
MTBE - methyl tert-butyl ether
TMB - trimethyl benzene
ND - None detected at indicated detection limit
VGES - Vermont Groundwater Enforcement Standards
Shaded area indicate VGES exceedences.

APPENDIX I

PHOTODOCUMENTATION

Walker Motors Excavation area – looking east

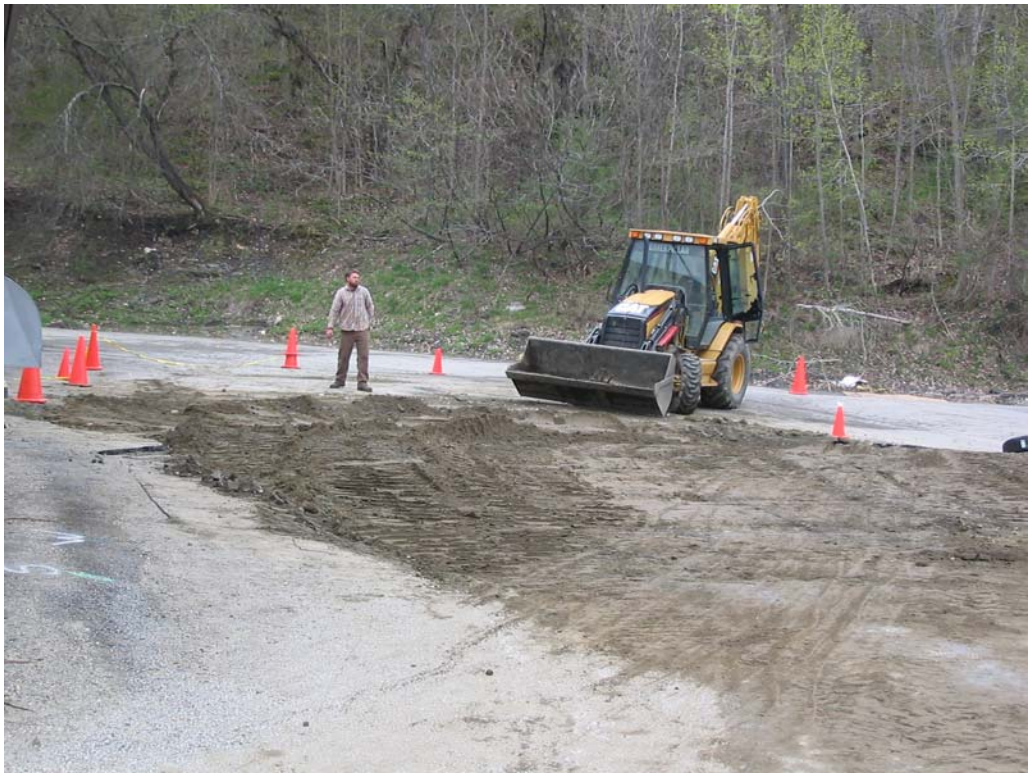
Trench and South Sidewall

Live-loading trucks for ESMI

Live-loading – looking south

Trench at northwest corner

Old septic tank located in the northeast corner of the excavation



Backfill activities

Excavation complete – waiting for gravel load to finish