Final

Operable Unit 2 Remedial Investigation Site Management Plan

for the

Diamond Head Oil Superfund Site
Kearny, New Jersey

Prepared for:
U.S. Environmental Protection Agency
Region II
290 Broadway, New York

Prepared by:

CH2MHILL

99 Cherry Hill Road
Parsippany, New Jersey

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Introduction

This Site Management Plan represents a combined Site Management Plan, Pollution Control and Mitigation Plan and Transportation and Disposal Plan for the Operable Unit 2 remedial investigation activities planned at the Diamond Head Oil site in Kearny, Hudson County, New Jersey (zip code 07032). The plan describes the site management procedures and designated equipment locations which will be followed during the remedial investigation activities, waste types and management, and the spill response procedures to be utilized in case of a spill emergency. The plan contains sections describing the following:

- Responsibilities for overall project management and management of the remedial investigation activities
- Procedures for providing status updates on ongoing activities
- Project contacts and lines of communication
- Communications with State and local officials, property owner, and the surrounding community
- Facilities, which will be brought to the site in support of field operations
- Security procedures to be followed during the investigation activities
- Procedures to follow in accommodating site visitors
- Compliance with Health and Safety Plan requirements
- Vegetation clearance and procedures to control tick exposures
- Utility connections
- Types of IDW expected and onsite management of IDW
- Transportation and disposal of the IDW
- Responding to non-emergency spills from the remedial investigation activities
- References and onsite availability of resources in the onsite office trailer

Management Responsibilities

The EPA Project Manager (PM) is Grisell Diaz-Cotto and the USACE Project Manager is Beth Buckrucker. The CH2M Hill Project Manager is Juliana Hess who will maintain overall responsibility for CH2M HILL's execution of the project. The responsibilities of various project team members are outlined below.

The Project Manager has primary responsibility and authority for:

- Implementing and executing the technical, quality and administrative aspects of the project, including the management of the project team and communicating with the quality control team.
- Maintaining the Sampling and Analysis Plan (SAP) (including Uniform Federal Policy – Quality Assurance Project Plan [UFP-QAPP]) and Contractor Quality Control Plan (CQCP) so that the investigation is conducted in accordance with all applicable plans and guidelines, including the Work Plan, the SAP, and the Health and Safety Plan (HSP).
- Communicating all technical, Quality Assurance (QA), and field activity updates to the EPA.

- Communicating administrative, scheduling, and budgeting updates or changes to the USACE.
- Documenting any deviations from the approved Work Plan, this SAP, and the HSP in Field Change Requests (FCRs) forms and in the monthly progress reports and communicating these to the EPA for approval.
- Procuring subcontractors who have the appropriate qualifications to provide the required services.
- Supporting the RI Lead, FS Lead, and FTL during the filed activities.

The Contractor Quality Control Manager (CQCM) / Review Team Leader (RTL) is Mark Lucas who is responsible for overall implementation and execution of the CQCP, the SAP, and the UFP-QAPP. Mr. Lucas is responsible for ensuring that applicable portions of the site specific SAP and UFP-QAPP, used in conjunction of this CQCP, will undergo the appropriate quality control measures detailed in the QCQP.

During the OU RI/FS, two senior technologists, Tom Palaia and Mark Lucas will serve as Project Quality Assurance Managers / Sr. Technical Support Experts. Tom Palaia will cover issues related to the light non aqueous phase liquid (LNAPL) investigation approach and methods and the evaluation of technologies and alternatives during the feasibility study. Mark Lucas will cover issues related to site geology, hydrology, and overall site technical approach.

The Quality Assurance Managers / Sr. Technical Support Experts will be responsible for communicating with the CH2M HILL PM, CQCM / RTL, and RI and FS Leaders throughout the field investigation to confirm that field activities follow established plan procedures.

Andy Judd will be the Remedial Investigation (RI) Lead. Mr. Judd is responsible for technical oversight, coordination, and implementation of all the field activities including the pilot testing and landfill investigation activities. Mr. Judd will provide technical support and direction throughout the RI. Mr. Judd will also be responsible for performing applicable field audits to verify compliance with the SAP, UFP-QAPP, and CQCP requirements applicable to the tasks that he has responsibility for.

The Feasibility Study (FS) Lead is Matt Germon who is responsible for the technology and alternatives feasibility evaluation. Mr. Germon will provide technical support and direction throughout the RI as it relates to obtaining the data necessary to support the feasibility evaluation.

Other responsibilities of the Leads include:

- Day-to-day implementation of activities covered by their respective tasks
- QC Inspections per the CQCP.
- Verify the qualifications of suppliers and subcontractors relative to project objectives and special requirements, and advise staff and subcontractors of their roles and responsibilities towards achieving the project objectives.
- Subcontract management and review and approval of subcontractor invoices.
- Ensure that all field staff possess the appropriate training prior to collecting environmental samples.
- Document any deviations from the plans and notify the PM.
- Maintain the budget and schedule on their respective tasks.

- Quality technical execution of the work.

The CQCM / RTL, the Project Quality Assurance Managers / Sr. Technical Support Experts, and the Leads will form the Quality Management Team (QMT), are as described in the CQCP. Detailed description of all quality control procedures and personnel are provided in the CQCP.

The RI Field Team Lead (FTL) and Sample Management Coordinator (SMC) is Dave Reamer. He is responsible for the ongoing day-to-day activities at the site and tracking and management of samples collected during the investigation. At times, there may be more than one CH2M HILL staff person working on the same activity at the site. In these instances Mr. Reamer is the leader for the activity and will manage and coordinate the work of the other staff.

The FTL will report to the RI Lead and will be supported by field technical staff assisting with the RI activities. The FTL will be responsible for:

- Overseeing the day-to-day implementation of the RI activities from their onset to completion.
- Implementing the Work Plan and SAP (including the UFP-QAPP and CQCP) in order to ensure that the acquired data meet the data quality objectives. When necessary, the FTL will document any deviations from the plans and procedures in FCRs and submit them to the RI Lead.

The Sample Management Coordinator (SMC) responsibilities include the following:

- Contact Adly Michael, EPA Regional Sample Control Coordinator (RSCC), along with Jennifer Feranda and Robert Toth, with information on laboratory requirements on Monday the week prior to a scheduled sampling event.
- Track number of samples collected in order to collect the correct number of QC samples including MS/MSDs, sample duplicates, trip blanks and equipment rinsate blanks per sample case or sampling event.
- Contact Adly Michael, EPA SMO, nightly with information on samples shipped that day.
- Contact Adly Michael by 3 PM on Friday if samples are shipped for Saturday Delivery; Note on FedEx forms and place Saturday Delivery Stickers on coolers; Inform FedEx of Saturday delivery requirements when the coolers are dropped off at FedEx.
- Coordinate and assist EPA (Adly Michael, Jennifer Feranda, and Robert Toth, etc.) with any sample management related issues.
- Prepare Sample Trip Report (Case Summaries) for each case number and submit to Adly Michael (electronic copy via email and paper copy via regular mail) within 3 weeks of sampling.
- Submit "Region" copies of each Chain of Custody (COCs) to Adly Michael within 3 weeks of sampling.
- Update the sample tracking table.

David Reamer will also serve as the Health and Safety Coordinator (HSC) during the field activities and will be responsible for implementing the Health and Safety Plan while

investigation activities are underway. This will include monitoring the work environment in accordance with the requirements in the plan and recording the results of this monitoring.

The project chemist will support the procurement and management of the subcontracted laboratories on an as needed-basis, and will provide technical guidance, as requested, during the RI/FS activities. The project chemist will also perform the review of the data quality after all the validated analytical results are received.

Remedial Investigation Status Updates

During the field activities, the RI and FS Leads and / or the FTL is responsible for contacting the CH2M HILL Project Manager to provide a daily update of that day's field activities. The update will include:

- Any health and safety issues noted
- Investigation logs/delineations completed that day
- Feasibility study updates and results if applicable
- Deviations from the planned sampling (e.g., boring locations, number of samples)
- Deviations from the procedures in the UFP-QAPP / CQCP, SAP or Work Plan
- General site and project updates
- Problems encountered and resolutions
- Any assistance needed
- Subcontractor performance
- Any anticipated effects on the project schedule and budget
- Any visitors to the site or contacts/requests made by State, local, or community members

Exhibit A-1 in Attachment A of the Site Management Plan Attachment A contains the information that will be provided in the daily status report. The Project Manager may use this Exhibit to record the information or keep a record in a phone conversion logbook.

CH2M HILL will prepare and submit monthly reports for the duration of this Task Order (12 months). The reports will summarize the month's activities by task and discuss work progress, anticipated problems and solutions, deliverables, upcoming events, and financial status. CH2M HILL will communicate to EPA and the USACE changes in the investigation approach due to the encountered field conditions as these occur; send a confirmatory email describing the situation to both the EPA and the USACE, and follow-up with a description in the monthly report.

The monthly reports and confirmatory emails will be forwarded to both the EPA and USACE project managers.

Project Contacts and Lines of Communication

Exhibit A-2 provides the list of EPA, USACE, and CH2M HILL project contacts. As subcontractor services are procured, contacts for each of these subcontracts and onsite utilities will be added to the list. An up-to-date list will be maintained in the onsite office trailer.

The direct lines of communication on technical issues and alternate back-up plans will be as follows:

- Field staff to FTL
  If FTL is not available, field staff to RI Lead
  If FTL/RI is not available, field staff to CH2M HILL's Project Manager
- FTL to RI Lead
  If RI Lead is not available, FTL to CH2M HILL Project Manager
- RI Lead to CH2M HILL Project Manager
  If CH2M HILL Project Manager is not available, RI Lead to EPA Project Manager
- CH2MHILL Project Manager to EPA Project Manager

All communication between CH2M HILL and USACE will be made by the CH2M HILL Project Manager, RI Lead or FS Lead

In case of an emergency and if the RI Lead and FTL are not available, the CH2M HILL field person is to follow procedures in the HSP.

Communications with State and Local Agencies, Property Owner and the Surrounding Community

The filed person will direct all requests for information made directly to him/her from State and local agencies, the property owner and his representative, and the surrounding community following the lines of communication noted above. Communications will be as soon as practicable based on the ongoing activities. The CH2M HILL Project Manager is responsible for informing the EPA Project Manager of the requests. The CH2M HILL Project Manager will respond to a request only after being directed to do so by the EPA Project Manager.

Support Facilities and Equipment and Supplies Storage and Recordkeeping

The following facilities will be staged at the site for the duration of the remedial investigation:

- Office trailer
- Dumpster for general trash
- Portable electric generator to power the onsite office trailer
- Temporary decontamination area
- On site computer with printer/copier
- Equipment storage container
- Portable sanitary facility
- 55 gallon drums for Investigation Derived Waste (IDW)

Figure A-1 is a site plan showing the general layout of the field facilities and equipment. Of note, all facilities will be located at the front of the property to assist in maintaining control of the site and minimize the area of the site that is accessed on a general basis.

The office trailer will be provided with desks, chairs, tables, filing cabinet, a laptop computer (removed at the end of each day), and a combined fax / printer. This computer will be used

by all field staff to connect to the office and receive and send emails through the use of a cellular broadband modem. Due to the difficulties in coordinating utility connections with local providers during the Phase 1 RI, local electric and telephone services will not be connected and will instead be provided by generator and cell phone.

The following supplies will be maintained in the trailer:

- First aid
- Eye wash station
- Fire extinguisher
- Spill cleanup supplies for non-emergency spills (e.g., kitty litter absorbent)

Equipment, supplies, and chemicals for the field investigation will be stored in a storage container where each chemical will be clearly and properly labeled and stored such that incompatible chemicals are segregated. In addition, the chemicals will be segregated in a different section of the storage container from the sampling equipment and supplies. The RI Lead/FTL is responsible for reviewing the Material Safety Data Sheets (MSDSs) for the chemicals and for designating the location where each chemical will be stored such that incompatible chemicals are segregated. The RI Lead/FTL will indicate this area to all onsite field personnel and instruct them to store chemicals only in this area. Spill cleanup supplies will also be maintained in the storage trailer.

Field parameter forms have been developed for documenting all performed field activities. The forms are included as attachments at the end of the SOPs describing the activities for, which they will document. During the field investigation activities, field personnel must complete the appropriate forms. The forms must be filed at the end of each day in three-ring binders provided for each form in the on-site office trailer. Upon completion of the field activities, the three-ring binders will be brought back to the CH2M HILL Parsippanny office and made part of the project documentation record.

Site Security

The site is surrounded by a fence with an access gate on Harrison Avenue. The gate will be locked at the end of each workday and unlocked at the start of the next workday. The gate may be left open during the day if site personnel feel that they have continuous control over site access (e.g., can visually observe the gates). If all personnel leave the site for a break, the gate will be closed and locked. The trailer will also be closed and locked when the gate is closed and locked.

Site Visitors

During the remedial investigation and feasibility study, official visitors such as the EPA Project Manager, an inspector from OSHA, or a representative from a State or local agency may visit the site (e.g., the NJDEP or NJ Meadowlands Commission). The FTL is responsible for informing the official visitor, if they are not already familiar with site activities, that this is a hazardous waste investigation and in order to come onsite, they must have the appropriate training under OSHA. The FTL is then responsible for immediately contacting the CH2M HILL Project Manager to inform her of the official visitor and seek direction. Visitors other than the EPA Project Manager must be requested to wait in the trailer until this contact is made.

A site visitor log will be maintained in the trailer and all visitors will be required to register in this log upon arrival.

Community members and the property owner and his representative will not be permitted onsite unless they have received prior approval from the EPA Project Manager. Site visitors authorized entry will be properly escorted and required to have the appropriate training and wear the protective gear specified in the Health and Safety Plan for the task that they perform.

Exhibits A-3 and A-4 are attendance logs that will be used for signing-in by the field staff and visitors.

Compliance with the Site Health and Safety Plan

A site-specific Health and Safety Plan has been developed. The Health and Safety Plan and the MSDSs for the chemicals which will be used during the remedial investigation will be posted in the trailer. In addition, the following are to be posted in the trailer:

- OSHA job site poster
- Evacuation plan
- Emergency phone numbers

Emergency equipment specified in the plan (spill kit, first aid, fire extinguisher, and other emergency equipment) are to be unpacked on the first day of filed activities and stored at a readily accessible location.

All personnel participating in the filed activities are required to read the Health and Safety Plan before arriving at the site and signing the "sign-off sheet" attached to the back of the plan. In addition, a "Site Safety Briefing" must be held each time new personnel begin work on the field investigation. The personnel who attend the briefing must sign the "sign-off sheet".

CH2M HILL's Hazard Communication Program and associated SOPs are available on the CH2M HILL's Intranet site and can be accessed at the site, if needed.

Air Monitoring

Real-time air monitoring for VOCs will be conducted during tasks involving intrusive activities (e.g., boring and monitoring well installation). The monitoring program is described in detail in the HSP. The air monitoring will be conducted for worker safety and will be associated with exposure action levels, which if exceeded, will trigger the need for corrective action. All air monitoring readings above 0 will be recorded in the field logbook or work activity log. The field staff is responsible for recording the readings along with the following information for each reading:

- Date
- Time
- Boring//activity being conducted

- Location of reading (e.g., head space, worker breathing zone, site perimeter)
- Any actions that needed to be taken based on the established action levels
- Any pertinent observations noted in the field logbook

Vegetation Clearance and Procedures to Control Exposures to Ticks

Vegetation clearance will be performed by the driller only for the locations where the soil borings and monitoring wells are to be installed.

Field personnel will follow the requirements in the HSP for wearing protective clothing and taking actions to minimize the potential for tick exposures. The application of insect or tick sprays will be performed outside of active work areas and away from environmental sampling areas in a manner to minimize the potential for cross contamination.

Equipment Storage and Tracking

Equipment will be stored in the onsite trailer and storage container. Equipment will be tracked using the form in Exhibit A-5.

Utility Connections

Local utility connections will not be completed during the OU2 RI/FS activities. Electricity to the office trailer will be provided through the use of a portable electric generator. Telephone service will be through cellular phone, and clean water will be supplied via nearby fire hydrants.

In addition to the above utilities, subcontractor services will be procured for the following:

- Weekly removal of general trash
- Field sanitary facility and weekly servicing of this facility

Onsite Management of Investigation Derived Waste (IDW)

The table below and Exhibit A-6 lists the IDW streams expected from the investigation activities and provides instructions on how to manage each waste stream. The waste streams expected to require management, transport and disposal are listed below.

Soil from soil boring installation
Well development water
Fluids from decontamination activities
Soiled Personal Protective Equipment (grossly contaminated)

The IDW storage area will be established at the front of the property (Figure A-1). Within this area, separate areas will be designated for the storage of each type of waste stream. All IDW will be placed in drums and brought to this area upon generation. The different IDW streams will be segregated in separate drums. No mixing of the different IDW streams is permitted. Drums will remain closed when not actively being filled with waste. Department

of Transportation (DOT)-approved fifty-five gallon, open top, type 17E (1A2) of drums will be used for the onsite storage and offsite transport and disposal of all wastes.

The drilling and excavation subcontractors will be responsible for supplying drums of the required specification, to support the remedial investigation.

The field staff is responsible for marking the following information on each drum:

- Type of IDW (see Exhibit for abbreviations to use)
- Unique drum number incorporating waste source location
- Date waste was first placed in drum
- Date when waste was last placed in drum
- % Fullness of drum
- % Water of drum contents
- % Solids of drum contents

The following is an example of an IDW drum label for the third drum of soil cuttings from boring locations SB-1 – SB-3 where the drum is 80% full (F) and the muddy cuttings consist of 40% water (W) and 60% soil (S), and it took two days to fill the drum.

IDW – Soil
SB-1, 2, 3
10/1/09 – 10/2/09
80F/40W/60S

A logbook will be maintained in the field trailer for the IDW storage area. As the drums are brought to the drum storage area, the information from the drum label will be recorded into the logbook. If any particulars of the IDW are observed, which may affect its management and disposal, the field staff will note them in the logbook in addition to marking all the above information on the drums.

The field staff is responsible for inspecting daily the IDW storage area to ensure that all drums are properly closed and there are no leaks or spills from the drums. Any spills or leaks at the drum storage area will be managed following the spill response procedures described in this Site Management Plan.

Transport and Disposal of IDW

Upon completion of the remedial investigation activities, CH2M HILL will:

- Inventory the drums accumulated at the IDW storage area;
- Recommend to EPA a waste classification for each waste stream;
- Procure a subcontract for the disposal of all IDW streams
- Oversee the preparation of disposal paperwork and the removal of the drums from the site.

Waste characterization will be performed after the completion of the field investigation based on the analytical results of the Phase 1 investigation sampling. If a determination is made that some of the drums contain hazardous waste, the FTL will be responsible for labeling

these drums with hazardous waste labels and the RI lead will be responsible for arranging for their disposal within 90 days of this determination.

Spill Response

In case of a spill on an unpaved surface, the FTL is responsible for immediately notifying the CH2M HILL Project Manager of the spill. The CH2M HILL Project Manager in turn will be responsible for immediately notifying the EPA Project Manager of the spill. Reporting of the spill to the NJDEP will be by the EPA Project Manager. NOTE THAT REPORTING OF SPILLS TO THE NJDEP MUST BE MADE WITHIN 15 MINUTES OF THE OCCURRENCE OF THE SPILL SO IT IS ESSENTIAL THAT ALL NOTIFICATIONS IN THIS SEQUENCE HAPPEN IMMEDIATELY. If the FTL cannot contact the CH2M HILL Project Manager, he/she will contact directly the EPA Project manager.

Onsite personnel are responsible for cleaning-up any accidental spills of chemicals, which are used during the RI activities as long as the spills do not represent "emergencies". Onsite personnel are also responsible for evaluating the spill conditions and for reviewing the appropriate MSDS to determine if the spill constitutes an emergency. Non-emergency spills will be cleaned up following the procedures in the MSDS for the spilled chemical. The generated waste will be collected in a drum separate from the drums where drill cuttings and other solid-phase wastes are accumulated. This drum will be labeled "Spill waste". In case of emergency spills, emergency phone numbers are available in the Health and Safety Plan. The field team lead is responsible for informing the RI Lead and/or the Project Manager immediately in case of a spill considered to represent an emergency even if the spill is not over unpaved soil.

The following information related to any emergency spills will be noted in the field logbook.

- Date and time of spill
- Origin of spill and chemical spilled
- Quantity of spill
- Emergency contacts made (time)
- Completed spill cleanup activities

The determination as to whether a spill represents an emergency lies with the responder to that spill. It is dependent on many factors including the type of chemical, quantity spilled, location of spill, whether the spill presents an emergency potential (e.g., fire), and whether the spill presents a potential for human and environmental exposure. For example, the same quantity of a spilled chemical may present an emergency at one location and an incidental spill at another location. Rather than specifying the spill quantities that would present an emergency, the plan leaves this determination with the field crew who is trained to assess the situation and make this determination. Irrespective of whether a spill represents and emergency or not, all spills over unpaved surfaces (i.e., soil) must be reported to the NJDEP immediately.

The drum where any spill cleanup supplies are collected will be characterized at the same time as the remaining drums. Until a determination as to its waste classification is made, the drum cannot be labeled as hazardous or nonhazardous waste.

The following definitions of incidental and emergency spills should be used to assist the field crew in making a determination as to whether the spill represents and emergency or not. An incidental spill is a spill that does not present an emergency to employees, and may be safely cleaned up. An incidental spill is generally small, and does not present the potential for over-exposure (e.g., above permissible exposure limit [PEL]) or present other emergency hazards (e.g., fire). Note that an incidental spill is defined as it pertains to employee hazards, without regard to the environmental hazards (i.e., a spill, as defined here, can be incidental and still pose an environmental emergency). HAZCOM training is sufficient to handle incidental spills.

An emergency spill is a spill that presents an actual or potential emergency hazard to employees, and must be immediately addressed. An emergency spill may be large, present an over-exposure hazard (e.g., above PEL), or have the potential to present an emergency (e.g., fire). Emergency spills may also present an environmental hazard.

References and Availability of Resources

The following references will be maintained in the onsite trailer:

- OU2 RI/FS Work Plan including schedule, scope and budget
- UFP-QAPP and CQCP and all attachments
- H&S Plan including evacuation plan and emergency phone numbers
- MSDSs for the chemicals planned to be used
- Site Management Plan
- Contacts list including the names and phone numbers of EPA, USACE, CH2M HILL, and subcontractor personnel
- Subcontract specifications and terms and conditions
- Copies of each form specified in the UFP-QAPP / CQCP to be used to document the remedial investigation activities (e.g., sampling logbook)
- Visitor logbook
- Drum logbook
- OSHA job site poster

The Health and Safety Plan, MSDSs, evacuation plan, emergency phone numbers, and OSHA poster will be posted at a conspicuous location in the onsite trailer.

Figure and Exhibits

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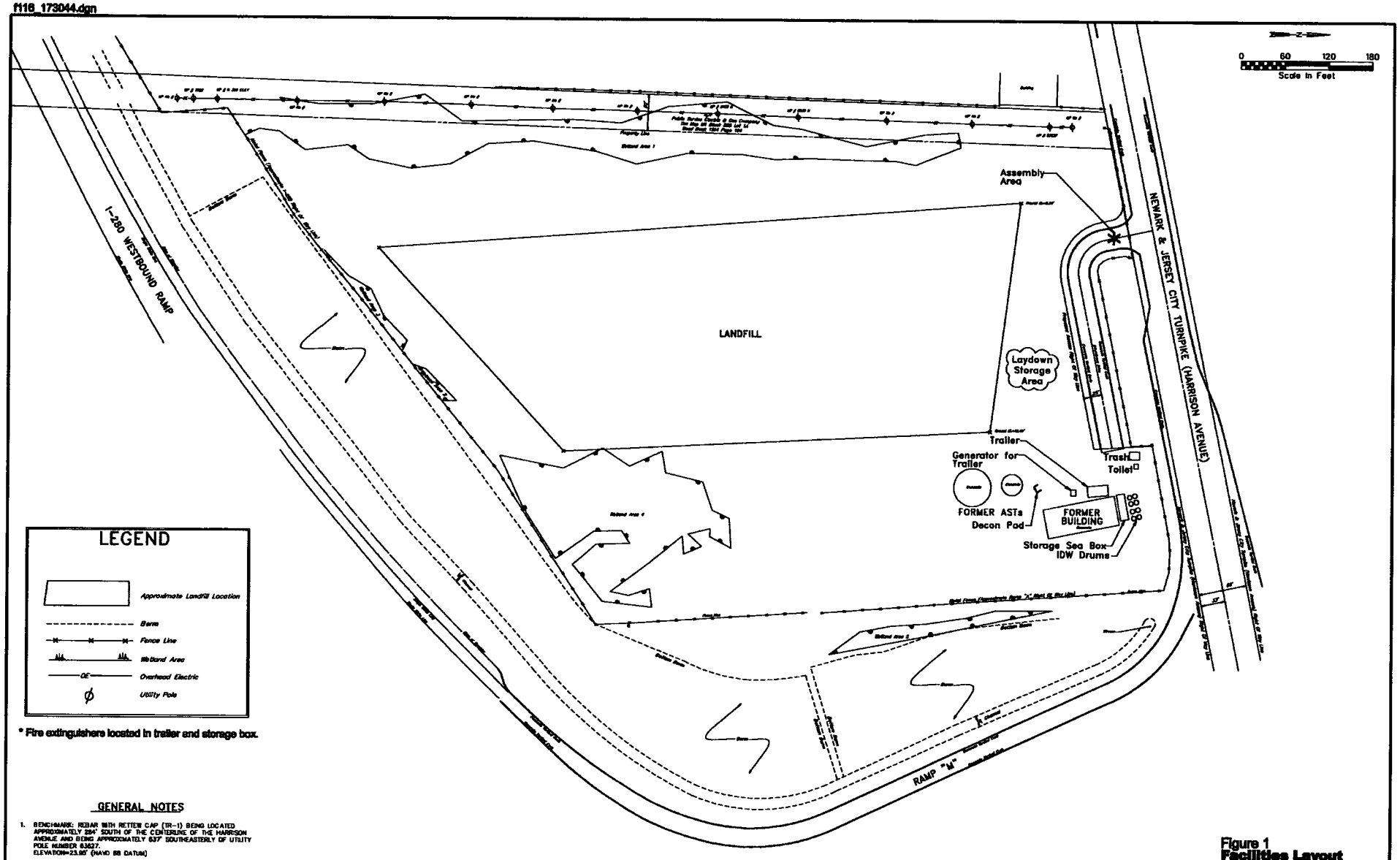

* Fire extinguishers located in trailer and storage box.

GENERAL NOTES

1. BENCHMARK: REBAR WITH RETTEW CAP (TR-1) BEING LOCATED APPROXIMATELY 284' SOUTH OF THE CENTERLINE OF THE HARRISON AVENUE AND BEING APPROXIMATELY 637' SOUTHEASTERLY OF UTILITY POLE NUMBER 63627.
ELEVATION=23.95' (NAVD 88 DATUM)

2. BASIS OF BEARING IS NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 83 DATUM).

Figure 1
Facilities Layout
Site Management Plan
Diamond Head Phase 2 RI/FS
Kearny, New Jersey 07032

CH2MHILL

Exhibit 1 Daily Status Report Diamond Head Oil Site – OU2 RI/FS	
Field Person Providing Report:	
Person Receiving Report:	
	PM RI/FS FTL
Date and time:	Date: Time:
Activities Performed On Site:	
Deviations from Work Plan:	YES No Explain:
Exceedances of HSP action levels? Corrective actions if any :	YES No Explain:
Problems / Issues encountered:	
Assistance needed:	
Subcontractor performance / issues:	
Any impacts on schedule / budget:	
Site visitors and any requests made:	
Comments:	

Exhibit 2
Diamond Head Oil Site OU2 RI/FS
Project Contacts

Name	Project responsibility	Location	Phone number				Fax No.	Email Address	Address
			Office	Ext.	Home	Cell phone			
CH2M HILL Project Team									
Juliana Hess	Project Manager	NJO	973-316-9300	43520	973-984-5734	201-802-1557	215-640-9387	juliana.hess@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Mark Lucas	Contractor Quality Control Manager /Review Team Lead	PHL	215-640-9085	49045		267-251-7730	215-563-3828	murray.rosenberg@ch2m.com	1717 Arch Street Suite 4400 Philadelphia, PA 19103
Tom Palala	FS Project Quality Assurance Manager / Sr. Technical Support	DEN	303-679-2510			303-717-2495		tom.palala@ch2m.com	P. O. Box 22508 Denver, CO 80222-0508
Mark Lucas	RI Project Quality Assurance Manager / Sr. Technical Support	PHL	215-640-9045	49045		609-760-7591	215-563-3828	mark.lucas@ch2m.com	1717 Arch Street Suite 4400 Philadelphia, PA 19103
Kevin Flynn	Construction Project Quality Assurance Manager / Sr.	NJO	973-316-9300	43514		215-859-2621	215-640-9383	kevin.flynn@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Andy Judd	Remedial Investigation Lead	NJO	973-316-9300	43523	908-979-1433	973-769-1473	215-640-9393	andrew.judd@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Matt Germon	Feasibility Study Lead	BOS	802-453-5754				802-349-9843	matt.germon@ch2m.com	41 Orchard Road South. Lincoln, VT 05443
Steve Beck	Health and Safety Coordinator	MKE	414-847-0277	40277		414-526-4517		steve.beck@ch2m.com	135 South 84th Street Suite 325 Milwaukee, WI 53214
Mike Zamboni	Project chemist	WDC	703 376 5111	45301		(571) 212-9324	703- 376-5801	michael.zamboni@ch2m.com	15010 Conference Center Drive Suite 200, Chantilly, VA 20151
Dave Reamer	Field Team Leader / Sample Management Coordinator / Health & Safety Coordinator	NJO	973-316-9300	43547		908-410-5999	215-640-9408	david.reamer@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Graham Sharkey	Field team member	NJO	973-316-9300	43564			973-722-0562	Graham.Sharkey@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Rachel Kopec	Field team member	NJO	973-316-9300	43526		973-615-9097	245-640-9396	rachel.kopec@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Michael Murphy	Field team member	NJO	973-316-9300	43536		551-486-3621		michael.murphy@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Delores Bellard-Bennet	CADD Specialist	PHL	215-640-9004	49004			215-640-9204	delores.bellard@ch2m.com	1717 Arch Street Suite 4400 Philadelphia, PA 19103
Mike Diernstein	GIS Specialist	VBO	757-671-6216				757- 497-6885	Michael.Dierstein@ch2m.com	5700 Cleveland Street Suite 101, Virginia Beach, 23462
Angela Zelman	Administrative	NJO	973-316-9300	43559			973-334-5847	angela.zelman@ch2m.com	119 Cherry Hill Road / Ste 200, Parsippany NJ 07054
Matt Kluge	HTRW Contracts Administrator	MKE	414 847-0365			262-391-4777	414-454-8770	Matt.Kluge@ch2m.com	135 South 84th Street Suite 325, Milwaukee, WI 53214
Paul LaMoth	Subcontract specialist	PHL	215-640-9004						1717 Arch Street Suite 4400 Philadelphia, PA 19103
Onsite Trailer	Temporary Office Trailer		Cell phone fot FTL						1401 Harrison Ave. Kearny, NJ 07032-4310
EPA Project Team									
Grisell Diaz-Cotto	EPA Remedial Project Manager	NY	212-637-4430				212-637-4429	Diaz-Cotto.Grisell@epamail.epa.gov	290 Broadway, 19th floor, New York NY 10007-1866; Diaz-Cotto.Grisell@epamail.epa.gov
John Prince	Section Chief, Central New Jersey Remediation Section	NY	212-637-4380				212-637-4429	Prince.John@epamail.epa.gov	290 Broadway, New York NY 10007-1866; Prince.John@epamail.epa.gov
Richard Krauser	Geologist/Hydrogeologist	NY	212-637-4352				212-637-3083	krauser.richard@epa.gov	290 Broadway New York NY 10007-1866 krauser.richard@epa.gov
Chuck Nace	Risk Assessment	NY	212-637-4164				212-637-4360	nace.chuck@epa.gov	290 Broadway 18th floor New York NY 10007-1866 nace.chuck@epa.gov

Exhibit 2
Diamond Head Oil Site OU2 RI/FS
Project Contacts

Name	Project responsibility	Location	Phone number				Fax No.	Email Address	Address
			Office	Ext.	Home	Cell phone			
Adly Michael	CLP RSCC & SMO	NJ	732-906-6161				732-321-6622	michael.adly@epa.gov	USEPA - MS 215, 2890 Woodbridge Ave Edison, NJ 08837-3679 michael.adly@epa.gov
Jennifer Feranda	CLP RSCC & SMO Assistant	NJ	732-321-6687					feranda.jennifer@epa.gov	USEPA - MS 215, 2890 Woodbridge Ave Edison, NJ 08837-3679 feranda.jennifer@epa.gov
Robert Toth	CLP RSCC & SMO Assistant	NJ	732-906-6171					toth.robert@epa.gov	USEPA - MS 215, 2890 Woodbridge Ave Edison, NJ 08837-3679 toth.robert@epa.gov
NJDEP Project Team									
Atwood Davis	NJDEP Case Manager	NJ	609-777-1398				609-633-1439	atwood.davis@dep.state.nj.us	NJ Dept. of Env. Protection Bureau of Case Management 201E. State Street, 5th Floor, P.O. Box 028 Trenton, NJ 08625
Nancy Hamill	NJDEP - Environmental Toxicology and Risk Assessment Unit - Ecology Impact	NJ							

Exhibit 2
Diamond Head Oil Site OU2 RI/FS
Project Contacts

Name	Project responsibility	Location	Phone number				Fax No.	Email Address	Address
			Office	Ext.	Home	Cell phone			
USACE Project Team									
Beth Buckrucker	USACE Project Manager	MO	816-389-3581			816-695-5795		Elizabeth.A.Buckrucker@nwk02.usace.army.mil	700 Federal Building, Kansas City, MO 64106-2896 Elizabeth.A.Buckrucker@nwk02.usace.army.mil
Andy Gosnell	Geologist/Hydrogeologist	MO	816-389-3891					Andrew.S.Gosnell@nwk02.usace.army.mil	700 Federal Building, Kansas City, MO 64106-2896 Andrew.S.Gosnell@nwk02.usace.army.mil
NJDOT									
John Gahwyler	North Region Maintenance Supervisor		973-770-5123				732-496-9428	John.Gahwyler@dot.state.nj.us.	
Joshia Austin	Area Supervisor		732-496-9498					Josiah.Austin@dot.state.nj.us.	
Anthony Kirskey	Crew Supervisor							Anthony.Kirksey@dot.state.nj.us	
Subcontractors & Vendors/Providers of Support Facilities and Services									
NJ-One-Call	Utility mark outs to property boundary		1-800-272-1000						
	Investigative area utility markput								
	IDW disposal								
	Trash dumpster and trash removal								
	Office trailer & storage container								
	Generator rental for office trailer								
	Portable sanitary facility								
	Licensed electrician								
	Rental monitoring& sampling equipment								
	Consumable/Expendable supplies								
	Driller								
	Surveyor								
	IDW Characterization laboratory								

Exhibit 3

Staff Sign-In

Diamond Head Oil Site
OU2 RI/FS
Kearny, Hudson County, New Jersey, 07032-4310

Name (Print Legibly)	Affiliation	Date	Time Arrived at Site	Time Departed from Site	Purpose of Visit / Comments
John Doe	*CH2M HILL*	*10/1/2009*	*0700*	*1700*	*Landfill Evaluation*

Exhibit 4

Visitor Sign-In

Diamond Head Oil Site
OU2 RI/FS
Kearny, Hudson County, New Jersey, 07032-4310

Name (Print Legibly)	Affiliation	Date	Time Arrived at Site	Time Departed from Site	Purpose of Visit
John Doe	*USEPA*	*10/1/09*	*0900*	*1405*	*Site Visit*

Date: March 2009

Exhibit 5
Rental Equipment Tracking Log
Diamond Head Oil Site OU 2 RI/FS,
Kearny, Hudson County, New Jersey, 07032-4310

Equipment Type	Owner	I.D. #	Replaces Unit #	Date Received	Date Returned	Reason Returned
OVM 580B	*Pine Environmental*	*C-1000*	*Original Unit*	*11/1/2009*	*11/31/2009*	*Dead Battery*
OVM 580B	*Pine Environmental*	*C-1001*	*C-1000*	*11/31/2009*		

Revision No:1
Date: March 2009

Exhibit 6 Onsite Management of IDW Diamond Head Oil Site – OU2 RI/FS				
Waste Stream	**Estimated Number of drums**	**Receptacle / Container**	**Drum Label Abbreviation**	**Waste Management**
General trash, cardboard, and CH2M HILL non-soiled personal protective supplies	NA	Collect in trash dumpster	NA	Weekly trash removal
CH2M HILL soiled personal protective supplies (grossly contaminated)	3	55-gallon drums provided by Subcontractor	PPE	Collect & store in designated drum Store drum at drum storage area Label as required Anticipated waste classification: Non hazardous based on waste classification for similar waste stream during previous investigations Disposed off-site at EPA approved disposal facility
Soil from investigation activities	32	Soil from the installation of soil borings	SOIL	Same
Development water	17	Liquids generated during investigation activities	DECON	Same
Fluids from Decontamination Activities	23	Containerized in 55-gallon drums provided by Subcontractor	DECON	Same